A GEOGRAPHICAL

DESCRIPTION

OFTHE

Coasts, Harbours, and Sea Ports

Spanish West-Indies;

PARTICULARLY OF

PORTO BELLO, CARTAGENA, and the Island of Cuba.

WITH

OBSERVATIONS of the CURRENTS, and the VARIATIONS of the COMPASS in the Bay of MEXICO, and the North Sea of AMERICA:

TRANSLATED FROM

A Curious and Authentic Manuscript, written in Spanish by Domingo Gonzales Carranza, his Catholick Majesty's Principal Pilot of the Flota in New Spain, Anno 1718.

To which is added,

An APPENDIX, containing Capt. Parker's own Account of his Taking the Town of Porto Bello, in the Year 1601.

WITH

An INDEX, and a New and Correct CHART of the Whole;

Plans of the Havannah, Porto-Bello, Cartagena, and La Vera Cruz.

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LONDON:

Printed for the Editor CALEB SMITH (Inventor of the New Sea-Quadrant) at his Office, for Insuring Ships and Merchandize, in Caple-Alley, Cornbill: And sold by Mess. Strahan, Meadows, Brotherion, Clarke, and Willock, Booksellers, in Cornbill; Payne in Pope's Head-Alley; Innys in St. Paul's Church-yard; Robinson in Ludgate-street: Manby on Ludgate-Hill; Senex and Whiston in Fleet-street; and Mr. Nourse without Temple-Bar. M.DCC.XL.

Jos: Banks

der for the HIT OF The

MERCHANTS of Great Britain;

been influences in Tike Public Spi-

Commanders of Ships;

And OTHERS;

Who were pleased to subscribe for this Treatife. bas

Admiral Vermon's Ship de Admiral Vermon's Ship de Lately fulkained, by turned to the lately fulkained, by turned to the lately fulkained, by turned to the lately fulkained to HE ready and generous Encouragement you gave to the Propofal for publishing this Work, is an Instance of your laudable Zeal and Inclination to promote every Thing, which has a Tendency to improve the Navigation and Commerce of these Kingdoms: I therefore beg Leave to offer it to your Patronage;

fame Time, the Obligations I am under for the kind Reception it met

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with at your Hands.

Had fome Persons in bigh Stations been influenced by a like Public Spirit, this Treatife might have feen the Light time enough to have been of confiderable Ufe and Benefit to those brave Commanders of his Majesty's Ships, who are now in America; and probably, that Damage which Admiral Vernon's Ship, the Burford, lately fustained, by running upon a Rock off Point Ganoa, + might have been prevented, had they read the particular Cautions, given in the 66th and 67th Pages hereof, for avoiding it: However, the Publication at this Juntture, we hope, is not unfeafonce of these Kingdoms: I there-

Tuesday, May 27.

able, since his Majesty has been pleased to declare, that He " is now making "Preparations for carrying the War " on in the most proper Places, and " in the most vigorous and effectual " manner;" from which Intimation, it is hoped, the Spanish West Indies, will be the Scene of Action; and then I make no Question, but the Observations and Directions contained in this Book, will be found extremely serviceable to Those who may be ordered thither, upon any Enterprize or Expedition whatsoever.

To you, GENTLEMEN, the chief Promoters of our Trade and Navigation, this Kingdom is indebted for it's Increase of Wealth, Power, Strength and Honour: To your noble and ever memorable Defeat of that worst of Projects, the Grand Excise-Scheme, we owe the Freedom of our Commerce,

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and

and the Preservation of our Liberties; and whatsoever Glory the British Arms may acquire; whatever Advantages the Nation may obtain by a future Peace; the Cause of All must be attributed, in a great Measure, to your just, frequent and loud Remonstrances against the repeated Insults and Injuries of Spain: Wherefore, as your Prosperity and the Interest of your Country are inseparable; I shall include them Both in one Wish for your Happiness and Welfare; and am, with the utmost Respect,

GENTLEMEN.

Your most obliged

And most obedient

Humble Servant,

CALEB SMITH.

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THE

PREFACE.

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Sheets, thought it not proper to confine himself to a literal Version; but has endeavoured to express the Sense and Meaning of the Author, as truly and intelligibly as he could; to which End, he has frequently taken the Liberty to vary from the Expression, though not from the Purport of the Original; and some few trite Observations of no Use have been entirely omitted.

It may not be amiss to mention, that the Gentleman who brought the Original into England, was a Prisoner for some Time at the Havannah, where he procured it in Manuscript, and presented it to the Editor, as a Testimony of his Friendship and Respect.

This Treatise was perused by very good and able Judges, who thought it contained many useful Informations and Instructions, for such

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as fail in the Seas of North America, and the Bay of Mexico; wherefore, 'tis boped, the Publication hereof will prove acceptable to all Sea-faring Gentlemen, for whose Use and Advantage it is principally defigned; and though it may feem less entertaining to many others; yet the Curious, and fuch as delight in Geography, may find Matter of Instruction; and I am perswaded, the main End and Design of it, which is, the Advancement of Navigation, will be accepted and approved by All, who regard the Publick Good; more especially, as it tends to improve that valuable Branch of it, for the Freedom whereof it was thought needful to enter into a War with Spain ; in order to secure and confirm our Right of navigating in those Seas that are here described, without Interruption, Search or Visitation.

That the present War may be crowned with Success; and quickly end with a sirm Establishment of This Right, and every Other, which the British Nation has too long suffered to be insringed; is, I hope, the Prayer of every true Englishman, as well as of the

EDITOR.

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Caftle-Alley, Cornhill, May the 29th, 1740.

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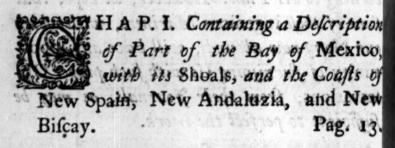
THIS Treatife appears to have been left unfinished by the Author, and 'tis much to be wished He had compleated it according to his Plan: However, we hope, that some of those ingenious Mariners, with which our Navy now abounds, will have an Opportunity of furnishing Us with such proper Observations, from their Journals, as may be sufficient to perfect the Work.

AS the Editor has been defired, by some Gentlemen, to publish this Treatise in the French Language; He proposes to put a Translation thereof to the Press, so soon as he has received 300 Subscriptions; at the Rate of three Shillings for each Book.

Quelques Messieurs François ayant souhaité d'avoir une Traduction de ce Livre en leur Langue: Je me suis determiné à la faire saire, & à le mettre au jour, aussitôt que j'aurai obtenu 300 Suscriptions, à trois Chelins chaque Livre.

THE

CONTENTS.



CHAP. II. Containing a Description of the rest of the Mexican Bay, and its Shoals, with the Coast of Yucatan, New Biscay, and Grand Florida.

p. 35.

CHAP. III. Containing the Description of the Coast of Yucatan, Guatemala, Honduras, Nicaragua and Costa Rica. p. 52.

CHAP. IV. The fourth Description contains the Windward Passage, with its Shoals; the Islands of Jamaica, and Part of that of Cuba, the Coasts of Cartagena, Terra Firma, Costa Rica, and Nicarragua.

p. 64.

CHAP.

- CHAP. V. Contains a Description of the Coast of Florida, the Channels, and the Island of Cuba.

 p. 99.
- CHAP. VI. The Signs or Marks of the Coast of the Havannah, from the Shoals of St. Isabel, as far as the Point of Hicacos.

 p. 105.

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52.

its art ma, ar-64.

- CHAP. VII. Containing Observations of the Currents, and the Variation of the Compass. p. 114.
- APPENDIX. Containing an Account of the taking the Town of Porto Bello, in the Year 1601, by Capt. Parker of Plymouth: Printed from his own Original MSS. with References to the Plan. p. 130.



CHAP. V. Centralis a Deforinting of the Girls of the Girls of the Grandley and the Third of Cubs.

Think of Cubs.

P. 59.

OHAP. VI. The Signs or Marks of the Could of the Havennah, from the Should of St. Hibel, as far as the Point of III. Caces.

CHAP. VII. Containing Objernations of the Convents, and the Variation of the Compass.

p. 114.

A PPENDIX Containing and Account of the talking the Town of Poste bello, in the Time 1601, by Copi. Parket of Plynamouth: Printed from the own Original 1168, with References to the Plan. p. 130.





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CHAP. I.

Containing a Description of Part of the Bay of Mexico, with its Shoals, and the Coasts of New Spain, New Andaluzia, and New Biscay.

HE Courses from one Port to another, when discover'd by Experience, are the Light of Navigation; for they teach and direct the Rout or Way,

that is to be taken to make a Voyage with Success: On which Consideration, in order to illustrate the Chart, or Map, we think proper to describe, in Writing, the Courses to and from the principal Ports at all Seasons, as well as the several Signs and Marks of the Shoals and Coasts; for the better Security and Direction of Seamen.

The

The principal Port of New Spain, in this fact Description, is, La Vera Cruz, and the Castle of St. Juan de Ulva, the Key of Traffick of the said Kingdom; wherefore I shall begin from thence to describe the Courses, sound out by the Experience of the most skilful and able Men, that have been known to navigate in this Bay, as well as on all the Coasts of America; from whom I have received all the Instruction, I am Master of on the present Subject.

Of the Winds and Weather.

The Seasons, Winds and Weather, in the Bay of Mexico, are as follow: The Trade Winds reign and blow generally from March to September, from the N. E. to the S. E. and the Weather is pleasant and serene. The Norths, or North Winds blow from September to March, and the Weather is stormy, but most tempestuous in the Months of November, December and January, when we have violent Storms and hard Gales of Wind, for fifteen and twenty Days successively; yet sometimes, if it be calm, the Trade Winds return, and the Weather grows ferene; otherwife, if there were no fuch Intermissions, it would be impossible to navigate in this Bay, in the Time of the North Winds; for even the Currents alter in the same Manner.

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On this Coast, and within all the Wind-Of the Tides.

ward Islands, the Fides are progular: The

Ebbs and Floods are very perceptible at the

Full and Change of the Moon; and some
times in the Quarters also, but never so much

as in the Conjunction and Opposition.

In the Rivers likewise the Tides ebb and flow every Day, yet irregularly; and when the North Wind blows, the Sea runs towards the Coast; which causes the Water to rise higher near the Shore.

Having premifed thus much : Let us fup. pose that we came from Old Spain, or the Havannah; and are now failing from the Soundings of the Shoals of Campechy, as far as La Vera Cruz; passing thro' the Soundings of the Alacran, and coming out between the Triangulas and the new Shoals of Mar The Course noel Antonio; or elfe between the faid Shoals from the Beand the Islands of Arenas: First, then, if you Sounding of the are bound for La Vera Cruz, from Old Spoin, Campechy as far as La Vera or the Havannah, in the Time of the North Cruz in Win-Winds; having pass'd the Trianguls, and the 'ernew Shoals, and the Islands of Arence; as foon as you come out of Soundings, you must steer your Course W.S.W. in order to make Punta delgade, or the Mountains of Villa Rica; the faid Punta lying in the Latitude

titude of twenty Degrees; and the Mountains in nineteen Degrees forty Minutes; when you are in this Latitude, about two Leagues from Land, you'll be in the Soundings of thirty-five or forty Fathoms; and at a League from this Landthere are twenty-five Fathoms. From the faid Punta the Coast runs towards the South, as far as Sampuala, and you must fail along the faid Coast, 'till you come into twenty Fathom Water, where the Bottom is loose and chalky Ground; but if you meet with Sand and Stones, you are upon Charalaca or Sampuala, which lie ten Leagues to the Leeward of Punta delgada; and from these Soundings, you must steer your Course towards the S.S.E. 'till you come into fixteen Fathoms; after which you must come no nearer the Land, for then you are in the Channel; and being off Old Vera Cruz, the River there commonly runs very strong, and in calm Weather throws the Ship out, upon which Account, you must endeavour to keep still in fixteen Fathoms, and continue your Course along the Coast, towards the S.S.E. in the same Channel, having the Castle of St. Juan de Ulva right a-head, 'till you arrive off Punta Gorda, where you'll meet with a muddish Bottom, and the Soundings will diminish to five Fathom,

thom, in the Channel that lies between the Gallega and the Restinga, or Point of the Caleta, or Cove of La Vera Cruz; and at entering the Channel, if you meet with Stones in your Soundings, you incline to the Gallega; but if you meet with Gravel, you incline to the Caleta; for the Bottom of the Channel itself which lies N.W. and S. E. is Mud, and you must anchor near the Castle.

If you make your Voyage in the Time of In Summer the Trade Winds, and come through the faid Shoals, you must steer your Course S. W. till you come into the Latitude of nineteen Degrees and ten Minutes North, in which lies the Port of La Vera Cruz; and from thence endeavour to find it by steering West. Within Sight of it, you'll raise the Gallega, which lies a League to the North of the Castle, 'till you see the Torre de la Merced, or Tower of Mercy, in one with the faid Castle, (which is the highest Tower in the City:) If you are a League and a half or two Leagues off at Sea, after feeing the Gallega, you must steer S.E. keeping the Punta Gorda right a-head, 'till you discover the faid Tower by the West-side of the Castle. and then direct your Courfe towards the City to gain Sight of the Piedras de la Gallega,

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you'll fail within a Musquet-shot of them, leaving them on the Larboard Side, 'till you discover the Ovens or Lime-Kilns, by the Land Side of the Castle; which Lime-Kilns are about half a League to the S. E. of the Tower of Mercy; and appear like Hummocks; as soon as you see the said Oven or Kilns, steer directly towards them, keeping the said Castle of St. Juan de Ulva on the Larboard Side; for by this Means you'll enter the North Channel, and keeping on the same Side, you'll sail S. E. by S. in five Fathom Water for about a Mile into the Body of the Channel.

From Campechy to La Vena Cruz in Winter.

If you sail from the Port of Campechy in the Time of the Northerly Winds; you must direct your Course to the W.N.W. because the Currents set to the South; and steering this Course you'll come in sight of the Shoals of the Arcas, along which you must coast by the North Side; and as soon as you are out of Soundings, change your Course to the W. which will certainly bring you into the Latitude of Punta delgada; but when you are got upon the South Side of the aforesaid Shoals of the Arcas, you must steer towards the W.N.W. 'till you are in Sight of the said Punta delgada; from which you are to sail

for

for the Port of La Vera Cruz, in the manner we described above.

If you fail from the Port of Campechy to From Campechy toLaVera La Vera Cruz, in Summer Time; direct your Cruz in Sum-Course toward the W.S.W. 'till you are out mer. of Soundings, through which you have paffed on the South Sides, and then direct your Course towards the West 'till you are in the Latitude of the Port of La Vera Cruz, which lies in nineteen Degrees and ten Minutes North; but if you should lose Soundings in a less Latitude, and steer W. yet you'll find the Latitude increasing, because the Currents at this Time fet toward the N.W. befides fome Allowance is to be made for the Variation of the Needle; and continuing your Course in the said Latitude of nineteen Degrees and ten Minutes, you'll fall in with the Port of La Vera Cruz, as aforesaid.

To go to La Vera Cruz without all fne Without the Shoals of the Soundings of Campechy, you pechy to La must sail into the Latitude of twenty-five De- vera Crus grees, till you think you have got past El Negrillo, or W. of its Meridian; and from thence in Time of North Winds, direct your Course S.W. and endeavour to make Punta delgada; but in Time of Trade Winds you must steer S.S.E. 'till you reach the Latitude of nineteen Degrees B 2

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Degrees and ten Minutes, and from thence W. to find the Port of La Vera Cruz; to which it must be observed you may also come by the S. E. Side of the Castle in Summer-Time, if your Ship draw somewhat less than four Fathoms of Water; for altho' the Channel of the West or Lee-side have fix or seven Fathom, yet the Entrance of the Port, on the S.E. fide, has barely four Fathom and a half; but Ships of the Draught aforefaid may come in between the Island Sacrificios and the Main Land, where there is a Channel of feven and eight Fathom Water, that runs N. and S. between the Islands of Verde and Sacrificios; in the Middle is a Ridge of Rocks with Breakers. called los Paxaros, between which and the faid Islands there are Channels, but only fit for finall Vessels or Frigates; and between the Island Verde and the Island of Blanquilha, lie the Shoals of Anegada; which make some Channels with those Islands, where a Ship may fail, and both these Channels have fix Fathom Water: The Channels between the Island Verde, and the Anegada, run E. and W. and between the Anegada, and the Mand Blanquilba lie W.S.W. and E.N.E. and the other Channels between the aforesaid middle Causeway or Ridge, the Isle Sacrificios and Island

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Island Verde lie N.W. and S.E. Between the great and little Gallega, is a Channel for small Veffels, which lies N.E. and S.W. and within this lies the Shoal or Flat about a Cannonthat to the S.E. of the Castle of St. Juan de Ulva, and E. and W. with the Mole of La Vera Cruz: On the Out-fide of the Shoal there is five Fathom Water; this Shoal is very dangerous, and has Breakers only when there is a great Swell, or bad Weather.

If you fail from the Port of La Vera Cruz From Vera to that of Campecby, in Summer-Time, en- Cruz to Campechy, at all deavour to go by the Coast of Guazaqualcos : Times. which Coast lies E. and W. and at these Times, as the Wind is apt to vary between the N.E. and S.E. you'll get sooner to the Eastward, without Occasion to tack the Ship often, and above all you are not to exceed the Latitude of nineteen Degrees and a half, for by this Means you'll run into the Soundings on the South Side of the Arcas, which will bring you in Sight of the Coast; along which you must ply to Windward to the Port of Campechy; but if you fail from La Vera Cruz in Time of the Northerly Winds, you must steer N.E. 'till you are in twenty or twenty one Degrees of North Latitude, and there, if you meet with a North, you must steer E. to get

into Soundings within the Shoals, if it be in the Day-Time; but if you meet with Sand or Stone in forty or forty-five Fathom Water, you are near the Shoals, and may fail into fight of them, after which you must take care to avoid them, as much as possible, passing by them where the Sea feems most favourable: but if you found in the Night-Time and find the faid Gravel or Stone, steer towards the South, 'till you meet with Mud, which you'll have in thirty three Fathom; and from thence you may fail E. where you'll never fail of still finding Mud, and may continue this Course fafely into twenty-fix and twenty-feven Fathom, for you are out of Danger and in the Channel, fo long as you have Mud, therefore care should be taken to sound every half hour: As foon as you come into twenty-five Fathom, and find a fandy Bottom, you may be affured that you have already got within the Shoals, and have gone through between the Triangulas and the Arcas; and that by this Course you are got into twenty-one Degrees of North Latitude; but if you should sound in the twentieth Degree of Latitude, and find Mud in the Night-Time with forty-five Fathom Water, you must sail E. and take care to found every Hour, and if you find the Bottom

Bottom Sand and Mud, you are not two Leagues from the Arcas, on the S.W. Side of them; but if you find Stone, you are upon them; if you find Gravel and thirty Fathom Water, you are to the W. of them; but if you take up loose Mud, at fifty or fixty Fathom, and find the Soundings leffen of a fudden, you are to Leeward, and upon the Coast of Tavasco, or of St. Peter and St. Paul; from whence you must keep off, and go thro' the Shoals to Campechy, directing your Courfe according to the Soundings, as we before defcribed, hostinialist

If you fail from La Vera Cruz to Havan- From La Vera nah in Time of the North Winds; steer your Cruz to Ha-Course towards N. E. and N. N. E. to gain Times. your Latitude before the North blow strong upon you, and if it catches you in the Latitude of twenty-two Degrees, sail E. 'till you are in Soundings, and if you find forty Fathom or more in the Beginning with Mud at the Bottom, and continuing your Course find the Bottom Stone in forty Fathom, you may conclude you are then upon the Trianguls, or new Shoals of Manoel Antonio; but if you should find forty Fathom and the Bottom Sand, you are upon the Islands of Arenas, therefore endeavour to keep the Mud 'till you meet with twenty-five Fathom and Sand, when BA

when you'll be upon the Shoals, which you must take care to avoid, in the Time of the North Winds, and you'll come out of Soundings between the Negrillo and the Island of Vermexa, Reering as far N. as you well can, which will bring you into thirty Fathoms and then for two or three Hours you'll find no Alteration of the Soundings; after that, for an Hour or an Hour and a half you'll find forty and forty-five Fathom, and in a little time you'll get no Ground with your Lead; upon which direct your Courfe towards the N.E. 'till you gain the Latitude of twentyfix Degrees, and in Case the North still blows, you must steer to the S.E. which will carry you clear out of the Soundings of the Alacran.

But if you sail from La Vera Cruz to Havannah in Summer-Time, steer your Course 'till you come into the Latitude of twentyfive Degrees; then sail E. into the Soundings of Las Tortugas, and from thence run over for the Havannah, as will be directed in due Place.

Advertisement concerning the Port of La Vera Cruz in dark Days.

The best Mark to know any Port by, when you are sure of its Latitude, is the Height, Form, and Situation of the Land near it; but many have not believed this

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Truth, when coming near the Coasts, in hazy Weather, they have feen the Land appear under a different Form, and with different Marks, from what they ever observed before; and fo find themselves perplexed; which indeed is no Wonder, if they have not made proper Observations of the Form and Height of the Land, which is the trueft Guide : On this Account I very much approve of the Portugueze Axiom, which fays. If you would know the Land, go to it. If it should happen in failing for the Port of La Vera Cruz, that we feek the Punta delgada, and meet with it in a foggy Day, when the Land is all obscure, and cannot be seen as in clear Weather; then, to overcome thefe Difficulties, if you are upon the faid Punta deleada, and cannot well diftinguish its Signs, keep close in to the Shore, for if you be near it, you'll find that the Coast to Windward runs towards the N.W. and the Leeward Coast towards the S.S.W. If you are off Bernal, you'll find the Punta delgada to the North; and from Bernal to Leeward the Coast stretches to the South as far as St. Puala; and upon this Coast, as foon as you are two or three Leagues from Shore, you'll find twenty-five or thirty Fathom of Water;

Water; if you find Sand, you are upon the Plains of Almeria; but if Mud, you are off Punta delgada; if you meet with loose Fuller's Earth, you are between Bernal and Chacalaca; and at this Place the Land, tho' it may be hazy and obscure, will appear full of high and large Mountains; and notwithstanding the Mountains of St. Martin, and the Pan de Misapa, may appear also to Leeward of the Port, yet these Mountains are much less; and besides, no Part of this Coast lies N. and S. and altho' there is Land that runs N.W. and S.E. it is low Land. To Leeward of Alvarado there is thirty Fathom of Water, with Gravel about a League's Distance from the Shore.

If you are at Sea and about four Leagues off the said Port of La Vera Cruz, you'll hardly see the Land in hazy Weather; but you'll have Soundings in forty Fathom of Sand and Gravel, but in some Parts rocky and muddy; and all this sort of Bottom is found from the Shoals of the Gallega, to the Cabezas de Alverado, which is all over Islands and Rocks, where you'll meet with Stone when you come into twenty-five or twenty Fathom; by which Marks the said

Places are known.

If it be in the Night Time, for it is in the Night very difficult to enter this Port of La Vera Cruz, you'll govern your felf according to the Marks of this Port, which are described elsewhere, along with the particular Marks of other Ports; on which account it will be highly necessary to have the best Maps or Charts, to know how to distinguish the Coasts: In clear Weather, if you should be upon the said Coast of La Advertisement Vera Cruz, the Signs and Marks are well Port of La known as follow: The Castle of St. Juan Vera Cruz in clear Weade Ulva lies almost E. and W. with the ther. Volcano de Orizaba, which is thirty Leagues within the Land, and is a burning Mountain, very high and cover'd with Snow; some Persons have seen it other 30 Leagues off at Sea, and it is the best Mark to this Port; for as foon as you fee the faid Volcano, if it lie towards the W. you are to the E. of the Port; and if it lie to the S. W. you are to Leeward of the Port; but if it St. Juan de lie to the N. W. you'll be to the Windward Ulva, and the Volcano de of the faid Port and Castle. Orizaba lie by From the faid Volcano towards the N. E. the Course of run out some thick and long Mountains, with Minutes from S. to W. and a small Hill or Eminence in the Middle; the same from

which from its Form is called the Trunk N. to B.

A DESCRIPTION of the

of Perole, and from this Hill they run to the Punta delgada, with which they lie N. W. and S. E.

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The Punta delgada is a Point or Skirt of the faid Mountains; tho' it does not feem to appear fo when you are E. and W. with it, but all Main-Land; yet when you come to the North or South Side of it, then it very plainly appears to be a large Skirt running out from the Mountain, and diminishing till it terminates in the Sea in a plain and narrow Point. The Mountains of Villa Rica are three Mountains, of a moderate Height, lying upon the Coast to Leeward of Punta delgada, and terminate at St. Puala, and run from East to West. The Westermost is the largest, and the Eastermost is the least; each of which narrows away into a Point like a Fryar's Hood, and all three together have the same Appearance, by which Mark they are well known. From the aforesaid Volcano to the S. W. the Mountain begins to diminish till it disappears; and from Old Vera Cruz to the Mountains the Coast is low and hummocky, and lies N. W. and S. E. Along this Shore there is no high Land, except that which appears within the Land, and runs

runs, as we faid before, from the aforesaid Volcano towards the S. W.

The Mountains of St. Martin are three, running from E. to W. and the first falls down upon Roca Partida, by the Sea Coast, which being the greatest, has been a Volcano, or burning Mountain; the middle one is of a moderate Height, with an Eminence or Hill in the Middle, that appears in the Nature of a Watch Tower; the last to the W. is round, running out with a Skirt or Declenfion towards the West, where it diminishes to a Point: All three are very well known by the Separations or Breaks between them, and by their not being so great as those of the Volcano de Orizaba, which when lying E. and W. with the Mountains of St. Martin, seem to be all one Mountain, fave only that there extends towards the South, a long even Mountain; and at the Distance of fix Leagues there appears another square Mountain resembling a Smith's Anvil, which they call El Pan de Milapa, and by it this Leeward Coast is well known; for from the Pan of Milapa, the Mountain diminishes towards the S. W. within the Land, 'till it terminates in low Land; and such is all the Coast of Misapa, on the East Side.

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Confis of New The Coasts of New Bifcay, which are on the North Side of the Mexican Bay, are all even low Land, and marshy; they run from E. to W. beginning from the Lake of St. Bernardo. This Coast is every where shallow, for in some Places we find Soundings fifteen and twenty Leagues off at Sea, and good Anchoring Ground. From the Rio Baxo as far as Cape Lodo, all the Coaft is likewise low and shallow, having but two and three Fathom of Water; and at feven or eight Leagues from Land, it scarcely can be feen from the main Top. The Port belonging to it, is that of the Lake of de la Ascen- Laguna de la Ascencion, where the Channel is but two Fathom deep, and has an Island

Of the Lake call'd Laguna cion.

in the Middle.

of St. Bernarluzia not inhabited.

From the Lake The Coafts of New Andalufia, which are do to the Coast on the West Side of the Mexican Bay, lie of New Anda- N. and S. reaching from Del Rio Morpata to the Lake of St. Bernardo, which is a very large and spacious Bay. Its Entrance lies N.W. and S. E. and is four Fathom deep: In this Bay the French endeavour'd to fettle, but within a Year, of a hundred Families that came, the major Part died; fo they attempted it no more: It is low Land, and very Marshy. Upon the Coast are some Creeks

Creeks proper to anchor in; but fifteen and twenty Leagues to the Sea it is very deep: Within a League of the Land we find ten or fifteen Fathom; and all the Coast runs in this manner, with five Fathom close to the Shore.

The Coasts of New Spain run from the Coasts of New River Morpata, and Lake of St. Bernardo, as Spain inhabifar as Old Vera Cruz; and from thence ranges South Eastward to Misapa; and from thence to the Lake of Terminos, which is on the South Side of the Mexican Bay, it runs E. and W. that is, taking the Direction by the general Course of the Land; for from one Part of the Coast to another, I shall for the most part leave it to your self to observe how the particular Creeks, and Capes, lie in respect of each other; as also their Latitudes, and the Distances between them; tho' in fome Places, I shall take care to describe the Distances, where it is necessary they should be known.

The River of Morpata is a great, rapid, and unnavigable River; and from it to that of Tampico makes a Bay towards the SS. W. in the Midway between these Rivers, within the Land, is one single high Mountain, ranging from N.W. to S.E. called the Moun-

River of Tampico.

Mountain of Tama Olimpa; and from hence to the River of Tampico is low Land, with Banks of Sand, extending towards the S.E. and to the South of Riv de Tampico, is a great Bank in Length about four Leagues; at the Beginning of which, towards the North, is the River of Tampico; this faid Bank is called La Cuchille, being the Mark for Tampical which is inhabited by Fishermen; so which feveral Frigates, and Boats, carry Salt from Gampechy. The Channel here is large, and its Entrance Hes towards the N.W. It has three Sand Banks, and a Bar, upon which we find but fifteen Palmas or ten Foot Water of the O odt to the

Cabo Roxo.

W From the hid Rivet of Tampico to Cabo Roxo, the Land lies N.W. and S.E. and when you are past the great Sand Bank of the Cuchilla, the Coast runs low, with more Sand Banks, to Cabo Roxo, which is fandy and level, between this Cabo Roxo, and the faid Bank of Cuchilla, there are two Sand Banks higher than the reft, refembling Sugar Louves, called Diables de Trias; near which are two Indian Towns, and a Place for Ships to take in Water, called Charca; and between this Coast of Cabo Roxo, and the Coasts within, there is a great Lake, which

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which reaches to within a League of Tampico. Its Entrance lies between Tampico and Tuspa: It is navigated by small Boats, the Coast being full of Fishermen.

To the S. E. of Cabo Roxo lies the Island Isla de Lobos. of Lobos, encompas'd by a Ridge of Rocks, between which and the Island of Lobos, a fmall Boat may pass, there being towards the N. E. a Passage of good Water, and on the S. W. Side there is a very good Anchoring Place of eight or ten Fathom Water; on the North Side of it lies a Ridge of Rocks. Now, altho' no Mention is made but of the Hland of Lobos, yet on the N. W. Side, about a League from it, there is another little Island, called Isla Blanquilla, to which the Ridge of Rocks from Lobos reaches; they are here fandy, baving some Palm Trees growing upon them: Towards the West of the said Island of Lobos, and Cabo Roxo, within Land there is a great Mountain, called St. Juan; in the Middle of which is a Ridge, or Hill, like a Saddle, which may be difcern'd ten Leagues off at Sea.

From Cabo Roxo the Coast runs S. W. as The Lake of far as Tampico, or the Bar of Tamiagua, Tamiagua. which is the same as the Mouth of the great

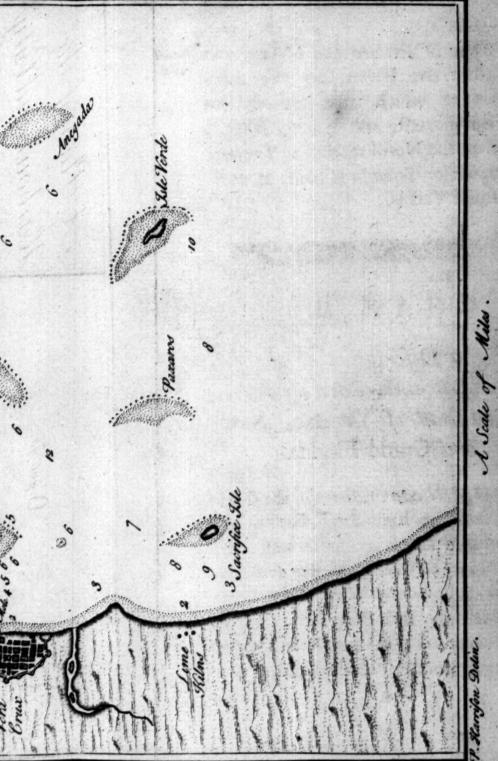
C Lake

Lake, that I mention'd before, and is called the Lake of Tamiagua, fo that the Coast of Cabo Roxo feems to be encompass'd with Water. In the Mouth of this Lake there is a small Island; and about two Leagues E. N. E. of the faid Island, are some Ridges of Rocks, called the Shoals of Tampico, which lie N. W. and S. E. with small Channels running between them: Next to Tampico lies Tuspa, where the Coast runs to the S. E. as far as Punta delgada; and about three Leagues on the S. E. Side of Tuspa, there are other Ridges of Rocks, called the Shoals of Tufpa, which lie, with those of Tampico. S. S. E. and N. N. W. The Distance between them is about five Leagues, and on the Land Side of them you have Soundings, and Anchoring Ground Thelter'd from the North Winds; and by keeping on the Windward Side, along all this Coast to La Vera Cruz, you have Soundings in eight or ten Fathom, with clean and good Ground.

Upon the Bar of Tuspa there is a little Peek, resembling the Castle of St. Juan de Ulva; and not far from it, towards the North, are two high Hills, like unto Sugar Loaves, called los Gregorios, by which the Bar

Asle I

A Plan of the Harbourand City of La Vena Cruz O gallega



Bar of Tuspa is known; over this Bar only

Boats can pais.

From Tuspa to Tocoluta and Nauta, and Tocoluta and between these two Rivers, are two small Nauta. Nauta. Mountains; of which, that towards the South is the greatest, and is upon Nauta; The other on the North reaches to Tocoluta. The River where Tocoluta is built, is navigable by small Vessels.

CASSESSED STREET

CHAP. II.

Containing a Description of the rest of the Mexican Bay, and its Shoals, with the Coast of Yucatan, New-Biscay, and Grand Florida.

ROM Nauta to Almeria, the Coast The Windhas some high Sand Banks, and ward Coasts within Land are some very high Cruz, and Mountains, called Sierras de los Almeria.

lumbres, which lie E. and W. with the Terra Blanca; from the faid Plains of Almeria, the Coast continues low, sandy, and even, and over it you may see, within Land, a very

great, high and even Mountain, called the

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Sierra del Papalota: The Plains aforesaid, run as far as the Lagunilla and Boquitta; from which Places may be discovered the Land of Cofre de Perote, and the Volcano de Orizabo, which last are great Mountains described before; after the Lagunilla follows the Punta delgada, which lies near the Son; and is the Skirt of a great Mountain which has a Break in the Middle, that causes it to appear in the manner of two Mountains, called by some Los Atriscos, and by others Los Herreros, or Los dos Hermanos. In Boquilla de Piedras the Boats take Shelter, there being good Water. Off the Punta delgada appears the Rock of Tortuga; and the Shore along the faid Punta delgada is not clean, on account of a stony Ridge running from it, about the Distance of a Gun-shot? Towards the South of the faid Punta, is a small Bay called the Ganada Bobo, where there is an Head Land, under which a large Boat may anchor and find shelter; and towards the North, tho' we find fix and eight Fathom Water, and good anchoring Ground,

yet there is no Safety for a Ship, because the Sea breaks very much upon the Shore.

and over it red may the Winin Land.

Punta delgada. From Punta delgada to Old Vere Cruz, Bernal. the Coast runs South, and upon Bernal there is a great Hill like a Sugar Loaf, called Bernal el Chico; where a small Vestel may take Shelter. Between the faid Hill and the Coast of Bernal and Sampuala, are the Mountains of Villa Rica, mentioned before; and from Sampuala to Charalaca, the Coast consists of Sandy Islands or Banks of different Heights : and from Chacalaca to Old Vera Crus, the Sand Banks are low and level But within the Coast the Land is all high, as was before observed; and in this Chacalaca, is a Watch Tower that gives Notice to New Vera Cruz, of every Thing observed at Sea. Off Old Vera Cruz, is a Sand Bank very high and bare; and the like we find to the South, as far as Rio de en Medio; and along the Coast that runs S. E. from Old Vera Cruz, the Sand Banks appear as far as New Vera Crux. Upon Punta Gorda is a Sand Bank round and bare, which looks reddiff when the Sun strikes upon it: The River of Old Vera Cruz is fit only for large Boats.

From New Vera Cruz to Medelin, the Medelin. Coast runs low, with little Hillocks, to the Distance of two Leagues, from the said River of Medelin, which has a Bar, and is fit C 3 only

only for great Boats: At some Distance off lies a fandy Island or Bank, on the S. E. Side whereof grows abundance of Wood. On this Coast lies the Island of Sacreficios, with an anchoring Place of eight Fathom, on the South-fide; the Bottom in some Places being Stone: Upon the Coast overagainst this Island, are the Ovens or Lime-Kilns; and on the South of the Island Verde you may also anchor, but not safely with a firong Northerly Wind, who was the state of the state of

con Lifardo.

Punta de An- From the River of Medelin, to the Punta de Anton Lisardo, the Distance is three Leagues; the faid Coast has its fandy Islands or Banks, fome of which are woody; the faid Punta being flat, and also woody: The Sea in this Place is very boisterous, and the said Punta has a small Bay fit to shelter a Boat. On the North-fide of this Punta, about a League off, lies Ifla Blanca, which is a small Island that confifts of white Sand, even with the Water; by the South-side of it there is a good anchoring Place, where the great Boats that trade from Alvarado take shelter; and between the faid Island and the Punta de Anton Lifardo, there is a Channel of seven and eight Fathom, with a good fandy Bottom; and about a Stone's-throw towards N. E.

of the Island Blanca, begins the stony Ridge del Palo, and between them is a Channel of five Fathom, but narrow, called Canal de Juan Grande; the faid stony Ridge of del Pale stretches to the S. E. followed by another, called le Rizo; and after that by another, called the Anegada Grande, and others, called Raviorcados; and then follow the Cavezas, which were two small Islands, but funk by a Storm, and now the Sea confantly breaks upon them; they lie about five Leagues to the N. of the River de Alvarado. From the stony Ridge del Palo, all the said Shoals run S. E. to the Distance of nine or ten Leagues, as far as the faid Cavezas; and from hence to the Leeward are no more Shoals toward the Sea. Between the faid stony Ridges, there are Channels of ten and twelve Fathom Water, large enough for Ships to go in and out, and when Necessity requires, may shelter from the North Winds near the faid stony Ridges: for I have feen a French Ship, which enter'd this Way, and shelter'd herself near and within the stony Ridge, called del Palo, which is the greatest: Between them and the Coast is a Passage of ten and fifteen Fathom as far as Alvarado.

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From the Punto de Anton Lifardo to the Rio de Alvarado, the Distance is about seven Leagues; and along this Part of the Coast are high fandy Mands or Banks, some whereof look red, and those on the River cause a great Fall, which may be seen off at Sea, and you fail towards 'em, for the Mouth of the River lies there. The Sand Banks on the N. W. Side make Eddies, and are larger than the others; and the Sand Bank upon the Mouth or Entrance appears as a Rock; close to which is a Channel of fixteen Palmes or eleven Foot Water: In the Middle of the Entrance is a Bank, upon which the Sea always breaks, called el Buey; tho' it often shifts its Place. The River is very rapid and deep, with many Towns upon it; one of which, about twenty Leagues up the River, is call'd our Lady of Casamaloapa; from the said River of Alvarado, the Coast runs with a double Row of high Sand Banks; and about a League to the Leeward, there is a round Bank, much higher than the rest, of red Sand, called el atto de Simon; and this, with that of the Rock of the Channel, makes the Appearance of a Fall off at Sea, and points out the Mouth of the River; and on the faid rocky Eminence of the Channel is placed the Watch or Signal House of the Town of Alverade. and on the faid Coast to S. E. about nine Leagues off Alvarado, lies the River de Cawannas, which is a rapid River, and formerly the Ships used to shelter there from the North-Winds it was inhabited by Fiftermen, but at present the Mouth of it is closed up, fo that it cannot admit even of a small Boat : and the Sign to know when you are upon this River, is to look within the Land to the Mountain of St. Martin, which is known by a Hill upon it like unto a Watch Tower: This Mountain lies N. and S. with the Mouth of the faid River of Cavannas. All along this Coast is deep Water, and bold too: It happen'd that a Ship Gruck upon this Coaft, and all the Crew were faved because they run ashore near the Mountain; about two Leagues to Leeward of Alvarade.

Two Leagues to the same Side of the River of Cavannes, there are, near the Shore, some little Islands, which run about a League in Length, and are called El Atajo, and this is the worst Part of the Coast,

From the River of Cavannas to the Puntilla, which is all eague, the Coast runs S. E. and on this Puntilla which is stony and stat, the Coast terminates in small Hillocks, making

making upon the faid Punta two round Hills. which feen from far look like little Islands from this Puntilla to Roca Partida, there is a League's Distance, and here lies the great Mountain of St. Martin, which runs to Pan de Misapa: All this Coast is steep too and covered with Trees. Towards the Sea are high and craggy Cliffs, with Hollows and Caverns, which in bad Weather cause strange Noises and Echo's that are often heard at Alvarado and Guazaqualcos. There was a Ship driven by the North Winds (without knowing where she was in the Night-Time) upon these Rocks of the Mountains St. Martin, about a League from the Land; it became calm on a fudden; and in the Morning finding herfelf under that mountainous Place, the anchor'd and continued there 'till the Breezes came and fo weigh'd and flood off to Sea. From the faid Puntilla de Roca Partida, there are two small Rivers of good Water, and the Roca has two small Islands adjacent thereto, and a fandy Cove on the N.W. Side; and on the S.W. Side is another great Cove, both which are Shelters for great Boats; the one from the S.W. and the other from the North Wind. A League to the S.W. of this Roca Partida lies another great round Roca

Roca or Rock, called El Morro de St. Martin; and from this Rock or Morro the Coaft runs South to a fandy Shore, which is a League and half off, where there are three Rocks full of Cavities; and the last towards the S. casts from it self a Spring of Water, which falls into the Sea: From this last mentioned Rock begins a Shore, which runs half a League S. S E. at the End of which Shore is the Lake or Laguna of St. Andres; the Entrance whereof lies N. and S. and has Is Palmos, or ten Foot Water; within it is a good Lake, running to the W. about a quarter of a League, where it is very shallow; but within the Bar there are four Fathom: It is well shelter'd, and contains two Sorts of Fish, called Pargos and Zargos.

On the other Side, to the S.E. of the Mouth of this Lake, you'll find a Ridge of large and round Stones very rough; and within the Lake you'll fee much Water dropping from the faid Ridge, which is the best I ever drank: To find the said Lake on the Coast; when you are come near the Rocks, look for the Shore, (for there is no larger near those Mountains of St. Martin) and as soon as you have seen it, coast along Shore towards the S.E. and you'll find the Mouth

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Mouth, or Entrance, between the End of the said Shore and the aforesaid Ridge; when you come upon this Coast, you may see the Lake within the Land from the Top of any Vessel; and off at Sea it lies E. and W. with the first Point that runs out from the South Side of the great Mountain of St. Martin into the said Lake,

Punta de Saponilan.

From the Lake of St. Andres the Coaft runs E. S. E. to the Punta de Sapotilan, and Costa brava de Sabrucales; the faid Point is flat and low, declining from the Edge of the Mountains to the Sea; upon it are little Mands, and Stone Ridges, which run half a League into the Sea; and along the Coast about a League; between them and the Point there is a Channel for large Boats, and between the faid little Islands there are small Channels for fuch Veffels; and 'tis cuftomary for them to take shelter under the said little Islands, near a Ridge which lies upon the Point, four Leagues N. of Pan de Misapa: To the South of which, is a little Bay; and about a League and half to the South of this Bay is a small River, called Del Portrere; from which River the Coast runs S.E. two Leagues and an half to another great Rock, which has at the Bottom towards the Sea

Sea a Jetting out or tharp Point; and four Leagues from the faid Rock, or Punta de Punta de Say-Sapolitan, to the Punta de Sayultepeque, upon ultepeque y which lies the Pan de Mifapa, terminates the fapa. Cofta brava with all the Mountains; fo that it begins with Roca de Farrellon, and ends with another Rock of the same fort. Between the River of Potrero, and the faid Rock of Sayultepeque, the Coast has two Ridges or Peeks like Rocks, of feveral Colours; from which and the Rock of Sayultepeque rife the aforefaid Mountains of the Pan de Misapa. From the faid Rock of Sayuttepeque, about a League to the South East lies another Rock called El Potrero de San Juan; between these Punta de San Rocks is a Bay, in the Middle of which is a Juan. small Rivulet of sweet Water; and on the South Side of the faid Rock Potrero de San Yuan, a small Vellel may take shelter, and find good Water. This Rock of San Juan. and Pan de Misapa, lie N. W. and S. E. with the River of Guazagualcos, which is fix Leagues; and within Sight appears a Coast that is raised by Sand Banks, that lies E. and W. To the S. E. of the faid Punta you'll fee fome Sand Banks quite bare; and there are no other in all this Coast, which serve as a Sign or Mark to thew the River

of Guazaqualcos, and look reddish; at the End of the faid Banks, and its Point towards the East, is the Entrance or Mouth of the faid River of Guazaqualcos, which Entrance lies N.W. and S. E. with the Pan de Misaba: On the other Side, to the East of this River, are Banks of a low Mountain, which returning to the Punta de San Juan, make the largest Bay on all this Coast, called the Bay of Misapa; the Lake of which lies about two Leagues to the South of the faid Punta de San Juan: The Coast on the N. W. Side of the faid Lake confifts of Sand Banks, which compose one large Mount or Bank; and on the S. E. Side lie some low and white Sand Banks: Between those and these lies the Mouth of the Lake of Misapa, which contains but four or five Foot Water, but it is a very good Shelter for great Boats. The Sign or Mark by which to know this Bay, and Lake of Misapa, when you are off at Sea, is to look within Land, to the Skirt of the Mountain of the Pan de Misapa, which declines towards the S. or S. W. for when the End of the faid Skirt lies W.S.W. from you, then the Bay and Lake of Misapa lie W.S. W. also: Within the Lake of Misapa there is a little Bar, and an Inlet of little Water, which

Laguna de Misapa. which has a Communication with the River Again the Riof Guazaqualcos; so that the Land from the qualcos. Lake of Milapa, as far as Guazaqualcos, is an Island, and for the most part, the Coast runs E. and W. for about four Leagues: The Coast is bold too, tho' the Shore be sandy; and upon it is an excellent Rivulet of mineral Waters, which are called the Rivers de Santiago; at the East-End of the great and bare Sand Banks aforesaid lies the great River of Guazaqualcos, (off which is a Sand Bank that never shifts) where there is twenty-two Foot at High-Water, and eighteen at Low-Water, it is about feventy or eighty Yards broad; and within the Mouth of the River is feven or eight Fathom Water, and five Fathom on either Shore: Its Entrance lies S. by W. and the Channel is in the Middle, along which fail between the Breakers, 'till you are past the Bank, and then you may anchor in any Part of the River; on the West-side of the Sand Bank, lies the Choca or Cottidge of the Vigiero or Signal-House, near which Place, on the one Side, and on the other, are small Rivulets of very fine Water: Five Leagues up the River, on the South Side, is an old Building Dock, or Yard, where two Ships have been built; and from hence the Road runs

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to Acayaca, about feven Leagues; between which lie feveral bther Towns: It is a very fine River, and the least Depth of Water is four Fathom: The Place is very fertile, and full of Wood, and Cattle, which I vifited by his Majesty's Order, to see if it were proper to build in; from the River of Guezaqualcos to the Lake of Terminos, the Coaft lies E. and W. It is mountainous Land ; and in some Places the Hills are high; from Guazagunicas to the River of Santa Anna, or Tonela, the Distance is five Leagues; and about four Leagues up this River there is a Town, called St. Anna, where it separates into two Streams, each of which have Towns that are inhabited: From the two Mouths of this River, you may go to Cupila; and both these Streams have a Communication within the Land, forming an Island between them. To this follows Chitepeque and other Rivers, as Tabareas, St. Pedro, St. Paulo, and the River of Tavafre, where is a Town goverhed by a Mayor: To know when you are upon Tavasco, look within the Land at fome Mountains, (for there are no others) called the Mountains of Hills of Chiapa; and when you are N. and S. with the faid

Mountains, you'll be also N. and S. with the

Rio de San Anna ô Tonela.

Rio de Tavasco.

faid River of Tavafeor To this follows the Lake of Gbicalango, and then the Lake of Terminos, and between Tufta which lies on the W. of the Lake of Chicalango to the Lake of Terminos, are careening Places for Ships, called the Chicalango, where is a very even Grove of Mangrove Trees, and here if a Ship runs ashore in a North, the Crew may be faved. Loris good good or and side by

The Lake of Terminos is a very large one. and has little Islands; the Entrances are not The Lake of clear of Rocks, which you must pass on the Terminos. East Side, and to the West of the said small Islands, which make two Entrances of clean Ground; and here Log-Wood used to be cut; on account of its Abundance the Foreigners reforted to this Lake, but the Inhabitants of Campechy hindered them for many Years with their large Boats called Piraquas.

Navigating from the Capes de Corrientes, Course from and of San Anton to La Vera Cruz, or Port rientes and of Campechy, you must sail into the Sound-San Anton to ings of Cape Catoche, in the Latitude of twen- and Campety-two Degrees, and you'll find the greatest the Alacran; Sounding fifty Fathoms; in which Parallel which is the you must fail till you are in twenty or twenty- times, and bettwo Fathom, but not into less than eighteen ter than with-Fathom, for off the Mouths of Conil there Course has been

La Vera Cruz Safest at all out, which are abandoned,

are Shoals, where from eighteen Fathom you'll come fuddenly into twelve, and you ought to avoid them; for in twelve Fathom lies a Shoal, called El Corfario, which is but just cover'd with Water, and some have seen it dry: The Bottom is stony; therefore obferve that keeping in twenty or twenty-two Fathom you are fafe; and in these Soundings take care to keep along the Land Side of the Alacran, not exceeding twenty-five or twenty-fix Fathom, because the Shoals of the Alacran lie in thirty Fathom without as well as within; and it may be feen without, by the breaking of the Water. In twenty Fathom is the Channel, the Bottom in some Parts thick Sand, in others small Cockle-Shells, or Sand and Gravel; when you are near the Shoal of Sifal, you will find but twelve Fathom, therefore take Care to found often in order to avoid falling upon it: It is a stony Shoal, and the Water is seen to break upon it: The Course of all this Channel is W. by S. with twenty Fathom Water: Obferve that when you find eighteen Fathom, and afterwards twenty, and then again eighteen, with the Bottom Stone, then you are quite clear of the Shoal of Sifal, and are upon the Shore of Punta de Piedras, which fort

of Bottom runs from the Coast to the Shoals of Alacran, which is the best Mark or Sign of the Soundings in all this Passage; but when you find the Bottom Stone, steer your Courfe W. by S. and within an Hour you'll loofe these craggy Islands, and be in twenty or twenty-two Fathom, with Sand and Gravel, and then presently in twenty-five Fathom and Sand, after that in twenty-fix or twenty-seven Fathom, with small white Sand, when you are off Desconicida; and Keep in the then if you have the abovesaid Soundings 22 Degrees, and Depth of Water, and are bound for La'till you disco-Vera Cruz, steer W. S.W. which Course will conicida, and bring you into deeper Water, where you'll the Bottom keeps the same find Sand like that of the Hour-Glass in Depth to 21° twenty-eight or thirty Fathom; when the Sand is mix'd with Mud, you are near the Channel, which lies between the Triangulas and the new Shoals of Manoel Antonio, within which Channel you'll find more and more Water, and the Bottom Mud: In forty-five Fathom you are got quite clear of the Shoals, and will in a short time be out of Soundings: But if you find your felf in thirty-two or thirty-three Fathom and Mud, found often, for if you meet with Stone, you are not quite clear of the aforesaid Shoals of Manoel Anto-D 2 nio.

then you'll fliortly fall into forty and fortyfive Fathom, and be fafe, and clear of all Danger: From the faid Passage continue your Course W. S. W. which will bring you into the Channel, the Currents and Variation being here allow'd for.



CHAP. III.

Containing the Description of the Coast of Yucatan, Guatemala, Honduras, Nicaragua, and Costa Rica.

To go to Campechy by the Coast. by the Coast, and passing between Sisal and the Shore, find the Sound-

ings twenty Fathom, to the Southward of the Parallel of twenty-two Degrees, suppose in twenty-one, without discovering Land; in sailing on you'll quickly get no Bottom, and be off the Passage that lies East of the Island de Mügeres; after which you'll enter the Passage of great Soundings, and come by degrees into twenty and sisteen Fathom, and will make the Land of the Island Mugeres, which is stat, and has a Grove of Mangrove

Tr ee

Trees, with an ancient Building at the East End of it, that still looks white; behind the S. E. Point of it you may anchor in fix Fathom Water near the Island, searching for the best Ground, because there are some Stones: On the N. E. Point of it is a good Place to take in Water.

From the Island de Mugeres, you must sail to N. N. W. and N. W. in fifteen Fathom, 'till you raise Cayo de Cantoy, without lessening your Soundings; for in the Paffage between the faid Cayo, and the Island, are some stony Ridges under Water; and from thence to the Coast of Cape Catoche, near Shore, is full of Ridges of funken Rocks: From the Soundings in fifteen Fathom, you may fee the Land of Cape Catoche, which is low, fandy, and full of Mangrove Trees: When the Water deepens to the N.W. you'll be clear of Cantoy, and run into eighteen Fathom; then fleer West, keeping in eighteen Fathom, 'till you are clear of the Mouths of Conil, and the Shoal del Corfario, which was fo called because it was discovered by an English Pirate in the Year 1669. and was hard saft if

Having fail'd clear of the Shoal del Corfario, steer S. W. lessening the Soundings 'till you come into fix Fathom Water, when D 2 you'll

you'll fee the Land which is low and marshy; three Leagues distance, before you make the Land, you'll fee the Watch Towers upon it, that look like Ships under Sail, by which Appearance many have been mistaken; the like Watch Towers are feen upon the Rivers Ligartos and Sifal: In the Night-time you may run fafely into fix Fathom, and by Day into five: If you intend to pass between the Coast and the Shoal of Corfario, as soon as you arrive at Cantoy, you must look out for the Land of Cape Catoche, running into fix Fathom; and coafting along Westward, in that Depth of Water, 'till you are got fafe past the Land Side of the said Shoal, and arrived off the Punta de Piedras: All the Soundings from Cape Catoche to this Place, are thick Sand, Gravel and Sand, or Sand and fmall Cockle-Shells; as foon as you are up with Punta de Piedras, in fix Fathom, you'll find Stone, and Rocks in five Fathom . therefore keep off to the N.W. in fix Fathom, till you are clear of the said Punta de Piedras, and find deeper Water with Sand: If the Sand is white, you are N. and S. with Desconicida; from hence you must fail South 'till you meet with five or four Fathom, which will bring you upon the Port of Campechy. If

If you would fail within the Soundings from Campechy to Cartagena, or Honduras, (for now this Voyage is made in that manner from Campechy, as well as from New Spain;) direct your Course first towards the North, till you increase the Depth of Water, and come into fifteen Fathom, and twentyone Degrees of Latitude, where you are upon the North Side of the Desconicida; and from Desconicida hence ply to the Windward, till you arrive off Punta de Piedras; and when you have fix Fathom you are clear of the faid Punta, and to the Eastward of it: And if you are bound to La Vera Cruz, you must endeayour to fail between the Shoals of the Island of Arenas and the new Shoal; or between the new Shoals and the Triangulas, or by either Entrance as the Season admits: If you are in the Soundings off Arenas, and lose the Mud, you are to the Eastward of the said Shoals, and from thence you must run into twenty-one Degrees of Latitude, and find the Soundings lessen to eight Fathom, on the North Side of the Desconicida: Here you must tack and turn it up till you clear the Punta de Piedras as aforefaid; and so make fhort Trips between the Coast and the Shoal of Sisal; from four or five to nine or ten Fa-D 4 thom

thom Water, it is all a good and clear Ground: The Windward Fleet generally steer this Course, because the Winds in the Day-time blow out of the Sea, and are Trade Winds upon this Coast; in the Night-time they blow off the Land, upon which account, for the most part, there is not so frequent an Occasion to tack towards the East, for the Currents many times fet Eastward in Counter Streams. But without Sifal they fet W. N.W. and the usual Trade Winds continue to blow; having turn'd to Windward as aforesaid, near the Land of Sifal, when you are on the East Side of the aforesaid Shoal in the Off Shoar Tack, you may go as far as fifteen Fathom; failing thus till you are abreast of the River Lagartos, for from hence to Cape Catoche there are Sand Banks on the Coast, which may be feen very plain, on the other Side of the River Lagartos; wherefore stand off into eighteen Fathom, and in again to fifteen Fathom, till you weather the Shoal of Del Corfario; for when you've clear'd that, you may stand in Shore to eight Fathom, but no nearer, because you are not clear of the Cayo of Canton while the Soundings lessen to the S. E. but when you find deeper Water towards the S. E. modi

S. E. you are clear of the said Cantoy, and by degrees you'll lose the Soundings on the East Side of Cantoy, near the Island of Mugeres, which is only frequented by Pirates and Privateers; and therefore, without necessity, you are not to come in fight of that Island.

If you go to Cartagena, or Parto Bello, and have loft Soundings, you must steer away S.E. or E.S.E. in order to get Soundings on the Banks off Cape Gracias a Dios, from whence the Shallows run more than twenty Leagues Northerly: Having got into these Soundings, fail along the Coast, and keep a good look out; when you are in fight of Cape Gracios à Dios the Coast runs South. and the faid Shoals with it: If the Wind or Weather obliges you to keep near the Coast, take Care to avoid the Rocks or Sand Banks that may obstruct your Passage; in this manner you must sail, 'till you meet with the main Land, the Coast of which lies E. and W. and then, tacking about, you'll advance towards the East very well, becanse of the counter Currents; and the Winds are fayourable to you both by Day and Night upon this Coast; and thus you may coast along to Porto Bello, or Cartagena, into which

which Ports direct your Courfe, as I shall order in a proper Place.

But if you are bound to Honduras, and find you are clear of the Soundings of Cape Catoche, on the East Side of the Island of Mugeres, steer S. S. E. 'till you see the Island of the Quanaxa, which lies in the Latitude of fixteen Degrees and forty Minutes, upon the Coast of Honduras; and a little further to the Westward of the said Island, lies that of the Racatan; when you are near either of them, direct your Course towards the Port de Truxillo, or Port de Caballos, or any other on the Coast: And in Case the Winds should incline to the S. E. and you discover Land in twenty Degrees of Latitude, it is the Island of Cosumel, which is a great Island, and of a confiderable Height, on the East-Side of the faid Island appears some antient Buildings of Indians; 'tis not clear on the West-Side, but there is a good Channel between the Island of Cosumel and the Coast of Bacallao, thro' which you may pass. On the South Side of Cosumel is the Island of Quita Suennos Quita Suennos in Latitude of eighteen Degrees and thirty Minutes, which has three little Islands on the North Side called Los

tres Hermanos, or the Three Brothers; the

Coaft

Cofumel.

Coast without is all full of stony Ridges, as far as the Bay de la Ascencion; and upon this Island Quita Suennos, or Three Brothers, was lost the Galleon Santiego, wherefore in falling in hereabouts take care not to come too near them.

If you fail from Campechy for the Port of The Course Havannah, you must begin your Course to from Campewards the North 'till you come to eighteen or Port of Hatwenty Fathom Water, and from thence steer N.E. which will carry you thro' between the Negrillos and the Alacran, which are above twenty Leagues distant from each other, and in the Middle of it you'll find forty Fathom, and in fight of its Breakers at least thirty or thirty-five Fathom: If you are E. and W. with the Head of the Alacran, and nearer to the Negrillos than to the faid Alacran you'll get no Bottom; and when you have loft Soundings, steer N.E. if you can, or if you fail N. N. E. you are in a safe Course: If you can't enter between the faid Negrillos and Alacran steer N. N. W. 'till you find thirty Fathom Water, for these Soundings will bring you between the Negrillos and the Isla Vermeja or red Island; when you have failed two or three Hours in thirty Fathoms, you'll be within the faid Entrance, and in one Hour more CARTYINE you'll

you'll find forty or forty-five Fathom, and immediately after get no Bottom, upon which steer N.E. to avoid falling again into the Soundings, which are on the North Side of the Negrillos; and reach to more than twentyfour Degrees of Latitude. From this Latitude you may turn to Windward, into the Latitude of twenty-five Degrees, in order to get into the Soundings of Tortugas; and when you are out of the Soundings of Campechy, obferve that the Currents will fet you to the N. W. in this Sea, as far as the Latitude of twenty-fix and twenty-feven Degrees; and from thence forward there are counter Currents off the Coast, to the Windward; wherefore, the' you find yourself in these Latitudes, you are in no Danger, because the Voyage is commonly fhorter; and if you get into the Soundings of Tortugas, in twenty-fix Degrees of Latitude, as foon as you find forty Fathom, fteer South, 'till you lose the Soundings, and venture not into less than thirtyfive or forty Fathom; for to the North Side of the faid Tortugas, there lies a Shoal, fo very steep too, that you'll have twenty-five Fathom close aboard on't, and the next Cast ashore; several Ships have run upon it, but by bracing their Head Sails to the Mast, and carrying

carrying a finall Anchor out a-stern, have got off again; if you are in fifteen Fathom Water, and if it is in the Night-time, you are on the N. E. Side of the faid Tortugas, I wou'd advise you to bring to, (for all about this Place is good anchoring Ground) 'till it is Day, and then direct your Course South, and you'll run from fifteen into ten Fathom; obferving where the Sea breaks to avoid a shallow Place not clear of Rocks, which lies to the N.E. of the Tortugas; therefore endeavour always to keep in the faid Soundings, and you'll pass by the said Shoals and Rocks; after which you'll immediately find twentyeight Fathom, between Tortugas and the Cayo del Marquez: This Passage is shallower near Tortugas, than off the Cayo del Marquez. and from hence failing South you'll lose the Soundings. In case you meet with forty Fathom Water on the West Side of Tortugas, in the Latitude of twenty-five Degrees, direct your Course to the South, 'till you lose Soundings, and then S.S.E. if the Weather is moderate, but if the Breeze is fresh, you must fteer S.E. and these Courses will bring you to the Port of Havanna and Cofimar.

On the Coast of Grand Florida, lies the Bay of Pansacola, near the Bay of La Movila, where

where is a Castle and a Town, which has lately been peopled by the Spaniards, and has a Garrison: It is a very good Bay, and has its Entrance to the North between two Points of Clifts; but in the Middle it has fix, feven, and eight Fathom Water, and within is an Anchoring Place, near the Fortress, called St. Mary de Galve, so called because it was built in the Time of Count de Galve; and in this Bay you must take care to moor your Ship well against the Storms which sometimes happen: This Land produces many Pine-trees, fit for Ship Masts, whereof many are cut down and carried to La Vera Cruz, by a Ship that belongs to the Flota, which brings Provisions, and returns with Wood: This Bay lies with the Port of La Vera Cruz S.W. by S. and N. E. by N. and therefore they that come from La Vera Cruz to the faid Bay de Panzacola, fail out N.E. and as they are always plying to Windward, they come upon the Coast of New Bifcay: In 2801 they find Soundings and fail in three Fathom, 'till they come in Sight of Cape Lobo, which they always endeavour to find by its Soundings; the faid Cape lies upon the great River of the Palizada, and formerly it was called the Cape of Apalachy; but fince the new Discoveries in this Mexican

Mexican Bay, other Courses have been found, very different from the antient ones; for they sailed to the N. E. in Sight of Cape Lobo, and within Soundings, to make the Bay of Panzacola; and to continue in Soundings they coasted along in Sight of Cayos de St. Diego, in fifteen and twenty Fathom Water; sailing thus from Coast to Coast, into Sight of the said Bay.

From Panzacola there is a Communication with Apalachy by Land, which is also inhabited by Spaniards; and from Apalachy there is also a Communication by Land with St. Augustin in Florida.

This River of Apalachy is a very good one, and its Mouth or Entrance makes a large Harbour, but has fome shallow Places, not clear of Rocks, that run off from the Land, but in the Middle has five Fathom Water: the Course into the Mouth of the River is North, and within it is a very good Bay, and this Place lies with the Tortugas S. by East. and N. by West, being all a Passage of Navigable Soundings; a Trade is carried on between this Port and the Havannah by small Vessels: On the West Side of the Coast of Florida, that extends N. and S. lies the Bay of Carlos, from whence it comes that all this Plazer, or Channel, from the Tortugas to Apalachy,

palachy, is called the Bay of Carlos: This Bay is shallow as well as the rest of the Coast, that is to say, within Sight of it: The Bay of Spirito Santo, which lies in the Latitude of twenty-seven Degrees and an half, is the deepest of all this Coast, and is a great Bay of five, six, and seven Fathom Water: All the Coast is low.

STATE OF THE PARTY OF THE PARTY

CHAP. IV.

The fourth Description contains the Windward Passage, with its Shoals; the Islands of Jamaica, and Part of that of Cuba, the Coasts of Cartagena, Terra Firma, Costa Rica, and Nicarragua.

any other Place, and are bound to the Port of Cartagena; when you are off the large River of Magdalena, where this Description of the Coast of Cartagena begins, which is a River known by its having two Entrances, and an Island in the Middle, that makes an Appearance of a Ridge or Land higher than the two Points on each Side the River,

A. the City of Cartagona & Suburts Harbour & City & Plan of the a. Norve Dame de la Popa J. Fort of Bocher Chive 9 S'Philip h Sort de la Punta c. Fort Men zanilla 6. Fort S. Lagar c. Fort S! Jefeph d. Fort S. Gruss



A Scale of Miles.

Harryon Dolon).

COAST of CARTAGENA, &c.

River, and looks as red as Fire, and declines with a sharp Point; on each Side the Ridge there are plain Savanas towards the Sea: All these Points on the Entrances are full of shallow rocky Parts but narrow; and coasting along in a small Frigate to Cartagena (to avoid the strong Winds in the Offing) under the Shelter of the Land, I have feen, the Breakers on these Ledges; and at Midnight in hauling off N.W. have founded four Fathom, and in throwing the Lead twice I loft the Soundings; and immediately after coasting towards the West, and having past the Mouths of the said Large River, you may see Morro Hermocos, which is a fingle Hill of a dark Appearance, and upon the Top of it is a Road that appears red: On this Coast, which is all low Land, is a little Bay, called Samba: The Shore is cover'd with Trees, and within the Land extends a great Mountain, towards S. W. called El Alto de Samba; when you are a-breast of Samba, you'll find the Soundings twenty-five Fathoms; which you are not to diminish, for fear of meeting with the Shoals of the Island of Arenas, that are not to be feen, unless you are close to the said Island, which lies at the furthermost End of the W. Side of the Bay of Samba; but if you keep in twenty or twenty-five Fathom you are safe; and here

here if Night overtakes you, the best way will be to anchor, left you fall to Leeward of Cartagena (without knowing it) especially if the Trade Winds blow, for the Current fets towards N.W.

When you fail along Shore, and arrive off the Islands of Arenas, the Coast will appear to be an even Land, extended from N.W. to S. E. in the Middle of which is a bare Mountain full of hollow, broken white Places of a circular Form, called El Bugio El Bugio del del Gatto: When you lie N. and S. with the white Cavities of the faid Bugio there are fome stony Ledges that run out a League and an half off to the Sea; which have no more than a Fathom and a half of Water upon them, and near them are five Fathoms on the Off-fide; on the Land Side, there is a Gravelly Ledge of two Fathom; which is only to be feen when the Bottom is clear, therefore you must take Care, for a great many Veffels have ftruck upon it: This Land of Bugio del Gatto terminates upon the Punta de la Canoa, which separates into three or four Hills upon the faid Punta that look like Islands, in Form of small Vessels called Canoas turned upfide down; and hence the faid Point took its Name: If you are off this Coast of Bugio del Gatto, when Night

comes

Gatto.

Punta de la Canoa.

comes on, with Land Winds, you must run into fifteen or twenty Fathom to anchor, because the Current sets towards the East, with those Winds. In the Day-time you may keep in twenty Fathom, and if you lose suddenly the Soundings, fail on'till you are N.W. and S. E. with the faid Bugio del Gatto; and from hence stand in for the Land till you meet with Soundings, from feven to eight Fathom, but then come no nearer the Shore, for in fix Fathom off the Point of Canoa, there are three Rocks, called El Negrillo, which are under Water; but the Sea is feen to break upon them, tho' there is fix Fathom Water close to them: N. and S. with the Bay of Cangrejera, there is a Channel between them and Punta de la Canoa which has feven Fathom Water, but keeping in eight Fathom Water, you'll fail clear of all Danger, and without them, 'till you are up with Punta Canoa, and then you'll bring open the Bay of la Cangrejera, and are past the said Negrillo, which lie in form of a Triangle, about a Cable's Length distant from each other; when you bring open the Bay of Cangrejera, you'll also bring open the City of Cartagena, and then you may luff up to the Southward, and anchor at the Playa Grande, or Great Shore, which is the Coast Playa Grand. off Cartagena: But if you fail along the

Coaft.

Coaft, and have no Soundings, take care to look out for the Hill of Nuestra Senora de la Popa, which lies above Cartagena: It is a remarkable Hill, (for there is none like it,) refembling a Gally overturned, with her Head to the N.E. and her Stern to the S.W. It commands or overlooks all this Land; as foon as you are in fight of it, stand in towards it, and you'll come upon the aforesaid Playa Grande: If this Hill appears towards the South or S.W. you'll be on the East Side of Cartagena; but if it should appear between the South and S. E. you'll be on the West Side of Cartagena, in which case you must take particular Care how you fail in for Cartagena on account of the Shoal of Sal Medina, which lies four Leagues from that Port, and a League and a half from the Shore of Tierra Bonda, and N. and S. with the Castle of Boca Chica, on the little Mouth; it is a Shoal of Stones, and shallow on the Out-side: Upon it was loft an Advice Boat from Spain in 1688; and the Almirante of the Galleons of the Marquis de Brenes, coming from Porto Bello to Cartagena, entered Boca-Chica, passing on the N.W. Side of the faid Shoal of Sal Medina within fight of it at Noon-Day, and after he thought himfelf clear of the Shoal, found the Vessel touch the Ground twice, but did not lose

affect)

lose her Way, for she went over free, and got in fafe: By this Fact it is known, that the faid Shoal runs out shallow towards the N.W. When you are off the Playa Grande, if you wou'd anchor on it, you may do it in what Water you please, for it is all clear Ground: At the End of this Playa, and of all the City of Cartagena, on the West Side, there was an Entrance called Boca Grande, or the Great Boca Grande Mouth; it was very large formerly, and the and Boca Galleons used to enter that Way, but for a Chica. great many Years past, it has been shut up, or obstructed, in such a manner, that all the Place is one continued Shore, and does not feem to have had any fuch Inlet or Mouth before it; only within the Harbour there is a little Cove with broken low Ground, that shews where this Entrance was. From thence, towards the West, the Land becomes more folid, and is called Tierra Bonda, that runs as far as Boca Chica, three Leagues distant from the faid Boca Grande; and this Boca Chica is, now-a-days, the Entrance of the Port of Cartagena, which I shall explain in the Description of the Bay of Cartagena.

If you are in the Latitude of ten Degrees, Signs of the and looking out for the Port of Cartagena, Coafts of Cardiscover no Land, you are then to the Lee-tigena to Forward of it; because Boca Chica, the Entrance to Bello.

of Cartagena, lies in the Latitude of ten Degrees; and from thence to the Windward is high Land, but to the Leeward it is lower Land: The Punta of San Blas lies in the Latitude of nine Degrees fifteen Minutes; and from thence to Porto Bello, the Coaft runs almost E. and W. Between Cartagena and the Punta de San Blas, lies the Bay or Gulf of Darien, in the Middle of which is the large River of Dariel, in the Latitude of eight Degrees thirty Minutes: In this Gulf many have been at a Lofs, not knowing what to do, for want of knowing the Directions and Marks of the Coasts; at the The N. E. and Mouth of the River or Gulf of Dariel, is the

S. W. Coals na to the River Dariel.

from Cartage- Punta de Caribana to the Windward, and Cape Tiburon to the Leeward: From Punta de Caribana, as far as Cartagena, the Coast lies N. E. and S.W. and from Cape Tiburon to Punta de San Blas, the Course of the Coast is N.W. and S. E. (between them is the Bay of Playon) and from Punta de San Blas to Porto Bello, the Coast runs E. and W. as was faid before. In your Passage to Cartagena, if you find yourself to the Southward of ten Degrees of Latitude, and in standing to the S. E. should discover Land a-head, or to the Windward, and none to the Leeward, you are off the Coast that lies N. E. and S.W.

near

near the River of Dariel; but if you discover Land to Leeward, that runs to the S. E. you are, upon the Playon, which is the Coast of San Blas: When you are on the Coast of N. E. and S. W. you are to the Leeward of Cartagena, and in Sight of Boca Chica, and of the Islands of Baru, which are not high; and you will fee the Hill of La Popa, and the Castle of Boca Chica: From the Hill of La Popa, the faid High Land extends, or runs, towards the East, with three or four Breaks, which are called Buena Vifta, or Good Sight, and the Main Land which is feen over the Islands of Baru, is moderately high: Near to the Sea, and to the Islands of Baru, lie the Islands of San Bernardo, which are of the same Magnitude as those of Baru: and within those of San Bernardo is a great Bay, called the Bay of Tolu: N. and S. with this Bay lie fome high Mountains, which run N. E. and S. W. and are called El Alta de Verana: Between all these Islands and the Main, you may anchor with any Veffel, for it is all a clean Paffage, and shelter'd from the Trade Winds, only you must keep a Hand on the Fore-Yard, to warn you from any Danger that he fees; without the faid Islands of Baru, but near them, you mayanchor E 4

anchor in good Bottom with white Sand; and between them and the Coast you may go to Cartagena, in a Channel of five Fathom with white Sand, which is to be feen at the Bottom, and smooth Water; in this Manner you may sail to Puerto de Naos, and from thence to Cartagena. To the Leeward of the Island of San Bernardo, lies Isla Fuerto, which is plain and even; to the Southward of this Island you may anchor in fix and eight Fathom, and may take in Water there: Between this Island and the Coast is a Channel of twenty-five and thirty Fathom: The Point on the N.E. Side of this Island is foul Ground without; and from the Island of San Bernardo you'll fee that the Land of the Coast is plain and marshy, only it has a few Hillocks in some Parts, and runs so to the Mountain del Aquila, or the Eagle, which lies S. W. of Illa Fuerto; these Mountains are not very high Lands, but are only called so because they rise higher than the Coast to the Windward; and at the End of it towards the S. W. are two Breaks declining to the Punta de Caribana. At the S. W. Side of the Ifla Fuerto lies la Tortoquilla, which is a low Island, and you may anchor under its Shelter. To the S. W. ancher

S.W. of the Tortoquilla, and by the Mountains del Aquila, there are three other little Islands, near the Coast; and on all this Coast of Isla Fuerto, as far as the Punta de Caribana, you may anchor in twenty and twenty-five Fathom; and a fost owzey Bottom, only off the Punta de Caribana, it is full of Stone Ridges and Shallows; this Point or Punta is low Land. If you come this Way, in case of need, you may send a Boat ashore, any where between the Mountains del Aquila and Cartagena; for here you'll find Towns of civilized Indians, which go to Tolu, and to the River of Sinu, to pay their Tithes with Cattle. From the Cape Tiburon runs towards N. W. a Bay called El Playon; all over which there are many Islands and Shoals; they all lie N.W. and S.E. with the faid Cape Tiburon and Punta de San Blas: The most Part of these Islands are furrounded with Shoals, funken Rocks. &e. but all have small Channels between them, which require a Man of Skill and Experience to enter and navigate thro' them; the Privateeers and Pirates are wont to take thelter and careen in the Ports of this Bay, for the Islands, that are without, secure them from all Winds, and here they can take in Water. to wards

But to return to our Marks to know the Coast, you must observe, that from Cape Tiburon towards the N.W. there runs a continued Ridge of Hills, with five or fix Breaks. near the Sea Coast, which are called Tiende Ropa; from thence, along all the Bay of Playon, are some high Mountains, as far as Cabeca de Catuca, which is a great Hill; and from hence toward the N.W. run the Hills of St. Blas or Sierras Lloronas (or Crying Hills) which terminate upon Punta de St. Blas, and make a Break in the Figure of a Saddle; fo that from Dariel to Leeward all is high Land, and higher on all the Bay of Playon; whereas it is lower on the Coast of N. E. and S.W. to wit, from Dariel to Cartagena: Now when you are upon the Coast of E. and W. which is that between Punta de St. Blas and Porto Bello, you'll fee the Crying Hills, or the Part that looks like a Saddle; from which to the Westward, run some even Hills, called Punta de Crux; along the Sea Coast the Land is low, near the River of Escribanos, or of Francisco. Private ou and Picar areas

To go from In coming out of Cartagena, at Boca Cartagena to Porto Bello in Chica, to go to Porto Bello, in Time of Time of the Trade Winds, you must direct your Course towards

towards the W. N. W. between Sal Medina and the Islands of Baru; and when you are abreaft of Thefore, which is the outermost Island of Baru, steer Westward, 'till you reach the Punta of St. Blas, or the Cabeca de Cativa; and from thence direct your Course S W. 'till you come in fight of the faid Punta; but if you judge you are upon it, and the Night overtakes you, without feeing it, your best way will be to brace to, with your Head off to Sea. left you should run upon the said Punta de St. Blas, which is not clear; and Eastward of it lies the Island del Agua; but, having lain by 'till Break of Day, direct your Course to the S.W. to make the Land of the Coast that lies E. and W. for by the Marks and Signs abovementioned, you'll know where you are; and when you are past the Point of St. Blas, you must keep out, (yet in fight of the Coast) which is better than to come too near the Land; because the Trade Winds make a great Sea upon this first Part of the Coast of E. W. and from the River del Escribanos the Coast is shallow as far as Nombre de Dios. Coasting along in this manner, as foon as you fee the Land higher towards the W.S.W. you must keep

into the Shore, to fall in with Nombre de Dios, and to the Westward you'll see the little Islands of Bastimentos; Southward of which lies the Bay of Nombre de Dios, where the Galleons used to come in formerly; it is about fix Leagues from Porto Bello. When you are upon these little Islands, you may either go without them, or keep the Land a-board, and fail within them; in either Cafe you'll see the Land a-head, near which lies a little high Island, called Drake's Island; between this and the Main, there is a Channel of four Fathom, and to the North-west of Drake's Island lies the Shoal of Sal Meding off Porto Bello, which you'll know immediately by the Breakers upon it, and any Galleon may pass between the said Shoal and Drake's Island, or without it; for, on either Side there is Water enough, and when you reach the Port, your Course is S. E. into the Harbour, where you anchor before Porto Bello. German Consul ords users out

In another Description I shall explain this Entrance of Porto Bello with that of El Nombre de Dios.

To go from If you fail from Cartagena to Porto Bello Cartagena to in Time of the Land Winds, you must first Forto Bello in Time of Land direct your Course to W. N. W. 'till you Winds.

are in the Latitude of eleven or twelve Degrees, to get into the Trade Winds, which Course will carry you clear of the Island of St. Andres; for altho' you may anchor near Island of St. it, and take in Water, yet, if there is no neceffity, 'tis better to avoid it, because there are some stony Ridges, on the South Side, at some Distance from the Island; and towards the West of it are the Cayos de la Magdalena; but in twelve Degrees of Latitude you are intirely fafe, and got beyond the faid Island of St. Andres. From this Latitude, which you must not exceed, steer S. W. to get fight of the Excudo de Veraguas, or the Hill of Suerre, which is a very high Hill, as round as a Sugar-Loaf, and lies on that Part of Costa Rica, which runs N.N.W. and S.S.E. It is best to fall in with this Land in eleven Degrees of Latitude; for, altho' you fail in with the Trade Winds, yet, when you are in Sight of the Coast, you'll not be long without Land Winds, which are the Winds we defire to meet with upon this Shoar in failing to Porto Bello. The Reason for making this Coast, rather than that of Porto Bello, in time of Land Winds, is, that the Currents in this Season set towards the East, and the

S. W. Winds blow off the Land, at the fame time that the Trade Winds blow without, in such a manner, that the Land Winds do not reach far to Sea, nor the Trade Winds come very near the Land.

In looking out for Porto Bello, if you find your felf upon the Bastimentos, and meet with the Land Winds, you'll not be able to reach the Port; for the Current will fet you to the East, on which Account you must keep out, that you may have the Trade Winds, with which you can fail towards the W. to make the faid Cofta Rica; from whence, with the Land Winds, you may fail Eastward, coasting in Sight of the Shore as far as Porto Bello, taking special Care of not going too far to the Eastward of it; for, if that should happen, it would oblige you to put out again to Sea, to feek for the Trade Winds. Being therefore in Sight of the Pan de Suerre, (which, as we faid before, is a Hill as high as the Sierras Nevadas, or Snow Hills of Santa Martha) you must steer to the S. E. and look out for Excudo de Veraguas, which is a low Island, 2 Leagues from Land, that lies on the Coast of E. and W. and has a little eninence Eminence

COAST of CARTAGENA, &c.

Eminence or Headland, extending out to the Sea.

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You may know that you are upon this Island, when you see within Land, towards the S. fome middling Hills, running E. and W. called the Hills of Veraguas or del Almirante; because they lie on the Bay del Almirante, which fome likewife call las Bocas del Toro, or the Mouth of the Bull, that lies to the W. of the Island of El Escudo. In the faid Bay, near its Entrance, are some low Islands, without any Channels between them. The Bay del Almirante is large and spacious, where Pirates and Privateers refort and take shelter; it is peopled with Caribbee Indians, fo that you must not fend any Boat to Land; but when you come to this Coast of Excudo de Veraguas, if there is Occasion, you may anchor on the East Side of it, which is clean Ground, as likewise upon any Part of this Coast, from Veraguas as far as Porto Bello; for, all the Coast has good anchoring Ground, and the Bottom fandy: And failing along Shore towards the E. with the Land Wind, you must take care not to keep too far out; for, the Currents fet strong to the Eastward, and by leaving the Coast, you may happen to be put beyond the Port,

and be obliged to turn back, as I faid before; you may know this Coast well, and be fure that you are at Veraguas, when it begins to run E. and W. (for, from the Bay del Almirante, the Coast runs towards N.W. and N. N. W. as far as Suerre, and then to the Lake of Nicaragua) and you'll find that from the Excudo de Veraguas, some high Mountains or Hills, with a great Break in the Middle, run towards the East, and are called las Sierras de Cloque, which lie towards the East of the River Cloque. Having passed these Mountains, when you are to the Eastward of them, the Land runs even, and moderately high, with fome small Hillocks; over which, at a little Distance, there appears, on the East Side, a sharp high Hill, in the Form of a Sugar-Loaf, called Miguel de la Borda; from it, they say, one may also see the other Ocean, or Great South-Sea; for, in this Place, and between Porto Bello and Panama, lie the nearest Distances from one Sea to the other. Upon this Coast of Miguel de la Borda a low Land runs on toward the East, with Cavities or hollow Places, that look reddish, and reaches as far as the River of Chagres, which has a Fortress, and a Town of Spaniards, and is fit

Rio de Chagres.

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fit only for middling Veffels. On the South Side of the Hill of Miguel de la Borda begin fome Mountains, that run W. N. W. as far as Suerre, and are called the Hills of Salamanca; but failing along the Coast, it will be found, that toward Chagres the Land rifes a little higher, as also beyond Chagres for about a League towards the E. Then you will meet Porto de Naos, and from this Port the Land within begins to rise, and is called the Sierras de las Minas Vicias, or the Hills of the Old Mines, that run as far as Porto Bello; but, near the Sea Shore, the Coast of Chagres is lower to Porto Bello, along which as you fail, the Port de Naos will be feen to the Eastward. about two Leagues from the Island of Naranjos or Orange Island, near the main Land, is a Channel which is only fit for large Boats. In the Coast between Chagres and Porto Bello. fometimes a rough Sea arises from the Trade Winds; and in Time of the Land Winds there are some very dark and dreadful Nights, with much Lightning and some Thunder; but often the Lightning vanishes without Thunder; and tho' the Nights should prove favourable, yet, it will be necessary to go with a great deal of Care between Chagres and Porto Bello.

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If you should happen to be there in such Nights, anchor about a League from the Shore, in twenty or twenty-five as far as forty Fathoms, and do not come into less Water; because near Land the Sea is rougher than it is without, and the Currents have more Strength; besides that, from sisteen Fathom towards the Land it is foul Ground.

From Porto Bello to Cartagena. Sailing out of Porto Bello for Cartagena, direct your Course towards the N. W. 'till you arrive off the North Side of the Shoal of Sal Medina, and if you have the Wind large, steer E. by N. 'till you are N. and S. with the Cabeca, or Head of Cachiba; and Punta de St. Blas; and from thence continue your Course E. looking out for the Islands of Baru; when you have seen these, and are got clear of them, steer E. S. E. to enter Boca Chica.

But, if you come from Porto Bello, with the Trade Winds, you must traverse to Windward from Porto Bello to Punta de San Blas, governing your self according to the Winds, which in the Day are Northerly, and in the Night N. E. take care not to come too near the Shore, but only keep in Sight of it. At Sun-set you must stand out 'till Break of Day, and then tack and make in again to

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the Land; for, in this manner, you must coast along Shore, observing what Course you take by Day and Night, 'till you arrive at Cabeca, Cactiba, Punta de San Blas, and the Islands del Aqua; as soon as you discover to the Southward some high Hills, which are those of Tiende Ropa, you'll have got your Passage; and then sailing to the East, you'll go safe; when you arrive at the Islands del Aqua, steer E or E.S. E. as the Winds permit, to make the Coast of N.E. and S.W. or the Hills del Aquila, Isla Fuerto, and Islands of Baru; for, in any Port you come to upon this Coast, you may anchor, if there be Occasion.

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When you have made Isla Fuerto, steer N. E. or N. E. by N. for, by this Course you'll get into the Westerly Winds Way that blow in the Day-time, and then you may sail N. W. for, in the Night-time here are very favourable Winds: In this manner you may work to Windward along the Coast; provided you keep two Leagues off; for, then you are safe, and will find a muddy Bottom; from the Isla Fuerto you must keep the same Course, 'till you come in with the Islands of San Ber-

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nardo;

nardo; and then fleer to the North, to make the Islands of Baru; for, near them, on the South Side, there is no Bottom to be found: And thus you must sail N. or N. N. W. 'till you come to the Isla del Fesoro, which lies to the E.S. E. and from this Island the same Course will bring you to Boca Chica; if you cannot reach the Port of Cartagena in the Day-time, you may fail to Porto de Naos, and anchor there to pass the Night; it is a little Bay that lies two Leagues to the Leeward of Boca Chica, and may be known by a small Hill on the Shore, much like the Hill de la Popa, called Perico, and is as round as a Sugar-Loaf, one Point of which runs out to the Sea: Near this Point you'll enter Porto de Naos, and anchor in fifteen or fixteen Fathom of good Ground.

To go from Cartagena to Havannah.

In failing out of Boca Chica from Cartagena for the Havannah, either close haul'd, or with a large Wind, you may go between Sal Medina and Terra Bomba, 'till you are N. and S. with the City of Cartagena, and as far as the Punta de Canoa: If you should be oblig'd to anchor in passing between Terra Bomba and Sal Medina, for want of Wind, before you have got to the Eastward

of Boca Grande, which is on the Playa . Granda, or Great Shore; you must not cast anchor there, because the Water is too deep, and the Ground bad; but rather incline to the Shoal or Sal Medina, for thereabout you'll find a Bottom of Mud, with twenty or twenty-five Fathom Water. If you are a-breast off Cartagena, and free from Sal Medina, on the East Side, stand out to Sea, steering North, or more to the Windward, if the Weather permits; so that you are fure your Ship makes a N. N.W. Course, you may fail without Fear; for, you'll pass between the New Shoal and the English Shoal, and also between the said New Shoal and the Vibora or Viper, without founding on either, and observe, that, upon quitting the Playa Granda, or Great Shore, you take in your Top-fails, for fear of meeting with many hard Gusts, that often happen near the Coast, for the first and second Night, till you are out at Sea, and clear of these Squalls of Wind, by which many Ships have been damaged.

Having steer'd your Course Northward, when you find your Ship in the Latitude of fifteen Degrees, and thirty Minutes, take

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care of the English Shoal, which lies in that Latitude; for, if you sail but one Point to Leeward of N. N. W. you'll be upon it, and if you make your Course N. by W. you'll pass by the East Side of the said English Shoal, and sall in with the Middle of the Shoal of Vibora, or the Viper, which lies in the Latitude of sixteen Degrees sifty Minutes.

Keep therefore the faid Courfe, 'till you arrive in the Latitude of fixteen Degrees and forty Minutes, and if you have passed to the Eastward of the English Shoal, and do not find Soundings, you will be upon the Middle of the Viper, which is so steep too on the South Side, that half a League from it you may plainly fee its Breakers, and find no Soundings; and if it should happen that you are in this Situation towards Night, without discovering the said Breakers throw her Head off to the Southward, and lie by 'till Day; and then fteer to the N.W. to gain Sight of the faid Viper, or to meet with Soundings on the West Side of them; for, West of this Shoal of the Viper you'll find Soundings in the Latitude of fixteen Degrees and forty Minutes, where there is a fort of a Bay.

COAST of CARTAGENA, &c.

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If you steer North from Cartagena, in the Time of Trade Winds, you'll go between the English Shoal and the New Shoal. without feeing either, (tho' fometimes the New Shoal has been feen, yet that feldom happens) and when you are got to the Westward of the Viper, you'll meet with Soundings. as we faid before, and note the faid New Shoal lies about N. and S. with the West End of the faid Viper; therefore, when you have here met with Soundings, run to the S. or S. S. W. to get into deep Water; and having loft the Soundings, steer to the N. W. 'till you find the Bottom again, and then stand to the Southward again, into deep Water, 'till you can find no Bottom in your Course to the N.W. for, then you have left the Viper on the East Side. Some do sout

Upon this Bank of the Viper, on the North Side of the Shoal, is very good anchoring, and there is no Danger in failing over it; if you avoid the stony Ridges that may be seen to the Eastward, and there are two or three little sandy Islands, near which the Ground is clean: In this Passage, and off the said Islands the Sloops from Jamaica come to sish.

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Having pursued this Course into the Latitude of seventeen Degrees, you are entirely clear of Danger; for, altho' you be within the Soundings of the Viper, provided you are in seventeen Degrees of Latitude, you'll be on the North Side of the stony Ridges, and in the Middle of the Bank which is clear from thence to the Northward, and then you may steer N. W. if the Winds are favourable; for, the Current fets to the N. and by this Course you cannot fail of seeing either the Great or Little Caimanes, (which are Islands to the S. of Cuba:) If the Trade Winds blow fresh, steer N. W. by N. (for with these Winds the Current sets S. W.) and you'll fall in with some of the Caimanes; the two small Islands lie in the Latitude of nineteen Degrees, and forty Minutes, and are about a League afunder, between which any Ship may pass: The first and Eastermost is plain, and full of Mangrove Trees; and the Point on the East runs out to the Sea, near it there is a smooth Passage; the Westermost Point is flat and even. On one Side the Coast lies W.S.W. and E.N.E. The other runs almost E by N. and W. by S. and is flat, even, marshy, and full of little Hills, fo that it looks like many fmall

COAST of CARTAGENA, &c.

fmall Islands, till you come near it, and then you find it is but one: Both Shoars have many fandy Banks, that look red, and may be coasted without Fear, because they are clean and safe, with deep Water.

The Grande Caiman, lies in the Latitude of nineteen Degrees twenty Minutes: This Island is low, and from E. to W. is covered with high hummocky Mangroves; it has many Ridges of Rocks that may be feen when you come near it, to run about half a League into the Sea; the first on the West has a great deal of Sand, and here makes a Bay. If you are in the Latitude of twenty Degrees, and have not feen the Caimanes, you are got to the North Side of them; and may have gone through them, between the large and the small; or you may have past by the West Side of the Grande Caiman, without feeing them; in which Cafe, direct your Course to the N.W. and you'll come in Sight of Cape Corrientes, which is an even Land, moderately high, with some Tufts of Trees; one of which Trees looks like a Watch Tower. When you are off this Cape, to be more fure of it, you'll fee to the Northward some high Mountains full of Ridges, which lie on the other Side of the Island of Cuba,

upon

upon the River of Puercos; and some call them Las Sierras del Potrero; others, Sierras del Rosario; for in this Situation you can see no other; they appear off at Sea to be two Hills: To this Cape Corrientes you are not to come too near, 'till you are N. and S. with it, for to the S.W. about a League and a half from Land, a Rock lies under Water.

But when you have passed thro' between the Caimanes, if the first Land you fee lie to the N.W. with three Eminencies or Hills, (of which the middle one is larger than the other two) you may be fure it is the Island of Pinos, for fuch an Appearance it makes at Sea; near to it you'll distinguish, that the Hill to the East is sharp pointed; and nearer to them. when you discover the low Land of the faid Island, you'll see to the Eastward, a continual Ridge of Shoals, which lie off the Eaftermost Point of the said Island de Pinos: These Shoals are called the Jardines, and run East and West; when you sail along this Island of Pinos, you'll see at the Westermost Point of it four or five stony Ridges, between which and the Island you may anchor, in case of Necessity, for it is good anchoring Ground and shelter'd from the Winds; and steering from henceto the West

West or N.W. you'll come in Sight of Cape Corrientes, as aforesaid.

The Ships that trade to Trinidad in Cuba, La Trinidad when they come from Cartagena, take the de Cuba. aforesaid Course; and as soon as they meet with the Vibora, or Viper, they cross over it. entring it's small Channels, between the stony Ridges, endeavouring to make the Punta del Negrillo of Jamaica; from thence having feen it they steer to the North, by which Course they commonly make the small Caimanes, and continue that Course, 'till they make the Cayos de Cavillones, and the Fardin de la Reina, or Queen's Garden; failing thence into twenty-one Degrees of Latitude, they keep a good Look-out; for if they fee Land they are upon the Cayos de Cavillones. which lie E. and W. and immediately after run N. W. and S. E. Those of the Fardin de la Reina they leave at a Distance, because the faid Cayos de la Reina, run along'till they terminate near the River of Trinidad, and if they come not in Sight of the faid Cayos, they always fail to the Northward 'till they make fome high Hills, for on the West are the two Hills of Gavilan, higher than those on the East, which are the Hills of Santo Espirito; when they are to the Northward they ftand

stand in for them, and pass between the Jardin de la Reina, and those near the Island of Pinos, which lie in twenty-one Degrees and thirty Minutes; in this Manner, failing 'till they fee the Hills of Gavilan, and are off the River of Trinidad, which is only fit for Vessels that draw about fifteen Palmos, or ten Foot Water, and lies at the West End of the said Hills, near the End of the Fardin de la Reina. From the River of Trinidad, to the East, run the Hills and the Bay of Santo Espirito, and the Mansanillo, which ends at Cape Cruz; and without the Coast, the Cayos del Jardin de la Reina, and those of the Cavilones, run 'till near Cape Cruz: To fail into Santo Espirito, and the Mansanillo, requires an experienced Pilot, as well as a Vessel of a small Draught of Water, because there are many Shoals in this Bay of Mansanillo. All this Sea between the Jardines de Isla de Pinos, and the Jardin de la Reina, and de la Trinidad, as far as the Bay of Xagua, is a Gulph, and therefore you must sail with the utmost Care.

Another Course from Cartagena to the Havannah.

In your Course from Cartagena, when you leave Playa Grande, or Punta Canoa, if the Wind shou'd hang Easterly, so that you

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can't lie nearer than N. by W. or N. N. W. you must observe that when you arrive in the Latitude of 13 Degrees and 30 Minutes, if the Night comes on, fo that you cannot fee the Shoal of Roncador, you must lay your Head off to the S. E. and lie by 'till Morning; if you then discover no Land, pursue your former Course of N.N.W. in the Day, and brace to, with your Head to the S.E. every Night, 'till you gain the Latitude of seventeen Degrees; for then if you have not found any Shoals, you'll have pass'd between the New Shoal, and the Serranilla in fifteen Degrees and thirty Minutes; if you judge that your Ship has latch'd to Leeward, or to the N.W. take care to found; for you may fall on the Shoal de la Serranilla, which if you find Soundings upon, stand off to the Southward till you lose them, traversing thus till you lose the Soundings to the N.W. and by that Means you'll go clear to the Leeward or East of the Serranilla: But if you judge you are on the West Side of the Serranilla; and observe that in standing off towards the N. N. W. the Soundings do not decrease, then you are upon the Banks of the Cape Gracias de Dios; for from them to that of the Serranilla there is but a small Distance) Michigan 191

Distance) and that Course will carry you clear of it: But if you should lessen the Sound. ings, in fleering N.N:W. you are then coming upon the Serranilla, which you are to avoid as aforesaid, and being clear of it, (either by paffing on the West Side, or on the East) fteer your Course N.W.by N. and you'll get Sight of Cape Corrientes; or else of San Anton, or the Island de Pinos; if you have paffed to the Bastward.

To fail from to the Port of

If you are off Cape Tiburon, and would fail Cape Tiburon to the Port of St. Jago de Cuba, you must steer N.W. between the faid Cape and the Island Navaza; to the W. of this Cape, about four. or five Leagues, lies a small Bank of eight and ten Fathom Water, which you may fail over without Danger.

> But, if you direct your Course N.W. you'll fall in with the Bay of Guantanamo, where the Land is high; and from Point Maizi, which is the East End of the Island of Cuba, all the Coast along the South Side is high Land, and even Hills, as far as the Sierra or Mountain of Guantanamo, or Santiago, which lies a League to the West of the Bay of Guantanamo; and all this Coast has deep Water, so that you may fail close along the Land: The Sierra, or Mountain

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Mountain of Guantanamo, may be known by its Form, which is like that of a Saddle, and terminates at the Sea, with a round Top, or high Cliff: A League before you come to this Mountain, lies the Bay of Guantanamo, which opens as you fail along the Coast; the Land about it is low, and full of Hillocks: It has its Entry to the N. and is a large Bay, with two Rivers of fweet Water, which the Pirates and Privateers often frequent. After you have passed the said Mountain or Saddle, there is a red high Hill, from which the Land declines, and fo runs lower to the West 'till it joins the Sierras del Cobre, or Copper Hills, which are other high Hills that run as far as the Sierra de Tarquino; the first and Eastermost of these has a Break like unto a perfect Half-Moon. and from this to the Saddle, the Land runs lower; at Sea the Coast between these Hills feems to confift of marshy Ground: In the Middle of the low Land, between the faid Hills, lies the Port of St. Jago de Cuba: Those that fail along the Coast, when they are passed the Saddle, will fee some Hills that look like Altars on the Sea Shore, and are therefore fo called; at the End of which lies a small Fort, called Aquadores; and coasting to the West, you'll

you'll perceive it look white. If you happen to be near this Place, in the Night-time, you must keep out 'till Day-light to enter

St. 7 ago de Cuba.

If coming from Cape Tiburon, you would go to Cape Cruz, and you are between the said Cape and the Navaza, steer N. W. and by this Course you'll pass safe to the Northward of the Shoal of las Ormigas, or Ants, which is a Shoal not visible, but the Water upon it seems to be boiling; then look out for the Copper Hills, that run from the Leeward of St. Jago de Cuba, to the Sierras or Hills of Tarquino; which are three very high Hills; the last or Westermost, has a round Apex or Top, that looks as if it had been burnt; these are the highest Hills on all the Coast, which lie E. and W. from Cape Mayze, or Punta de Maizi as far as Cape Cruz.

Upon the Coast, below these Hills, are three or sour Rivers sit for large Boats; and from the Hills of Tarquino to the Westward the Land declines, for the Distance of about a League; and runs even 'till it terminates in a narrow plain Point, called Cape Cruz, near which the Ground is soul, and as you sail along to the Westward, you may perceive it's Bank run about two Leagues off, from the Mast-Head.

To fail from Cape Cruz to the Caimanes, Cape Cruz. fleer W. b. S. 'fill you run into Sight of the small Caimanes; and having coasted along the South Side of them, steer N.W. to pass by the North Side of the great one; from thence fail into the Soundings of Cape Catoche; and if you are bound to New Spain, or From Cape to the Havannah; you must fail into Sight Spain, or to of Cape Corrientes. Observe that in all this the Havan-Sea of the Caimanes, the Currents are variable; and particularly when the Winds are moderate, they run to the N. and N.E. and set upon the Jardines, in such a manner, that failing along the North Side of the Caimaines, to make the Cape Corrientes, or the Island of Pinos, some Persons have found themselves upon the Jardines; and have been wreck'd or loft; others have been driven into Sight of the Hills of Gavilan; which lie upon the Bay of Xagua, mistaking it for the Island of Pinos, when they were really on the North Side of the Jardines; and in this Case, you must free yourself by steering to the East, with the Land Winds, and endeavour to make the Shoals call'd the Queen's Gardens; from thence fail to the Southward, and look out for the Gardens of the Island of Pinos, which, if you get Sight of

of, you may anchor on the East Side of them, in fix and eight Fathom Water: If your Vessel is not large you may fail to the Southward, between the Cayos, or Shoals; for there is a Channel, in which you must keep a Boat a-head to direct you. In these Cavos there are some that have good Water: when you are on the South Side of them you must fail to the West, to get Sight of the Island of Pinos; and from thence off Cape Corrientes; you must not keep too great a Distance from the Fardines, for some, by keeping at too great a Distance, instead of making Cape Corrientes, have been carried by the Currents in Sight of Cosumel, or the Island of Mugeres; and found themfelves in Danger; for after passing the Island of Pinos, the Current commonly fets to the S. W. and after that to the N.W. between the Capes of San Anton and Catoche: When you are bound for New Spain, or Havannab, it is better to get Sight of Cape Corrientes, or San Anton, than to fall in with Cape Catoche. A day Mad sate of grandle

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Contains a Description of the Coast of Florida, the Channels, and the Island of Cuba.

HEN you are up with Cape Corrientes, and certain of it by the Grove of Trees, as aforesaid; if you would go near it, you may fail fafely towards it, when it bears N. and S. for then you'll be clear of its Shoals; and when you are round it, there is a Bay to the Eastward which affords very good Shelter; where you may clean Ship, or heave down, in case of Necessity; and if you wou'd go in here, you must turn close aboard the Cape, for tho' you should see some Shoal Patches, or white Water, yet there is no Danger; as you will quickly get past it, keeping well up to Windward, 'till you come within the Bay; where you'll fee a fandy Shore, upon which you may anchor in five or fix Fathom Water, or more if you please, for it is all good anchoring Ground, and clear; tho' you fee the Bottom with black Spots, it is only

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Tufts

Tufts of Sea Weed, that lie in Heaps at the Bottom, and the rest is white Sand with Cockle-Shells; at the Brink of the Shore is a good Place to take in Water; and at the End of it, a Grove of Date Trees. After you have passed some Ridges of Stones, inclining to the Sea, you'll find the faid Place for Water. From Cape Corrientes the Coast runs to the W. N. W. as far as the Cape de San Anton, which is the West End of the Island of Cuba, and is like a Mole built on the Land, that runs out from the Front of the faid Island; on the South Side of it, the Coast is clear and soundable, the Land low and full of Trees; of which fome appear higher than others; at Sea the Trees are to be seen before you discover the Land. and they look like Ships under fail, which Appearance has deceived many Persons.

This Cape of San Anton, has about three Leagues in Front, from which three Points run out, that form two little Bays; each of them is a Place to take in Water; but the best is on the Northermost Point, called Punta del Manglar; that on the South is called Punta del Guanal; and they all lie N. and S. Near the Punta del Manglar, a little to the East of it, begins the Bank that runs to the

N.E. by the Shoals of St. Habel, and along the Coast as far as the Bay of Honda: If you would take in Water upon this Cape, you may anchor upon the faid Bank, for in this Part of the Punta del Manglar, there is a Spring or Well of good Water; near it there is likewise a Lake of good Water, and just by it, is a Pit called de la Sorda. To the Eastward of this Bank, lies the Bay of Guamiguanico, which affords good Shelter within, for Vessels of a moderate Draught; but without the said Bay there are four and five Fathom Water, and some Shelter from the North, between the Cayos; but a Man must be experienced that attempts to pass between them, to come out near Babia Honda. In failing without the Shoals of St. Ifabel, when you come upon the Shoal off Cape St. Anton, endeavour to pass in Sight of it, steering North; for to the N.W. of the faid Cape, about five or fix Leagues distant, lies a Shoat, called Don Sancho Pardo; but that Course will carry you clear of it, but you must luff up to Windward; and if you have a large Wind, you must fail N.E. passing by the Cayos, and Shoals of St. Ifabel, at some Diftance from them, (for they commonly are under Water, and their Breakers are never

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to be feen;) but when you are upon them. or have struck Ground, you must not attempt to ply to Windward near these Shoals; for here the counter Currents fet towards the S.W. and the same happens on that Part of the Coast which runs E. and W. from the Cavannas, to the Westward; therefore, it requires a large Wind to go coasting to the Havannab; but with the Trade Winds, 'tis better to steer your Course N. E. or N. N. E. to gain the Latitude of twenty-five Degrees, and find the Soundings of Tortugas, which Soundings you must lose again, by standing off to the Southward; and when loft, and in deep Water, direct your Course to the S.E. in Search of the Port of Havannab; taking Care from what Part of the Soundings you begin your traverse; because you may find Ground in twenty-five Degrees of Latitude, or less, and it is a material Thing in this Course, because you may have Soundings to the West of Tortugas, where the Bottom is thick Sand and Gravel, with thirty Fathom Water; from whence 'tis good traverfing to the S.S. E. and the Current will assist to bring you to the Port of Havannab. If you find Soundings in less than twenty-five Degrees, and the Bottom white Sand, with fmall

small Pieces of Lime, you are on the West Side of the Tortugas, and on the Edge of the Bank; from hence you must fail to the S.S.E. but if the Bottom should be reddish Gravel, with some small Cockle-Shells, you are to the S. W. of the faid Cayos; from thence you are to steer S. b. E. If the Bottom should be of reddish Stone, mixed with Mud, you are to the S.E. of the faid Cayos de Tortuga, and from hence fail South: If the Trade Winds blow fresh, Care must be taken because the Current runs very strong to the East; for which Reason endeavour to get sooner over to the Coast of Havannah, which you'll fee in less than thirty Hours, for that Time it takes to run over with a Traverse of fresh Gale. If you should not discover it Soundings to within this Time the Current has been very the Port of Havannah. ftrong, and you'll fall in with Matanfas, or

Porto de Hicacos.

If the Trade Winds blow moderate, the Current does not run so strong to Windward; in this case it will take more Time to come in sight of the Coast; wherefore you must always compare the Time with the Currents, and other Circumstances, that may happen to forward or retard your Course; which Things sometimes puzzle the best Pilot.

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It

It is very necessary to get into the Sound. ings of the Tortugas, to make your Passage fafe; for, some have confidently run over at a Venture without once Sounding on the faid Bank, and have got upon the Shoals of St. Ifabel, and loft their Ships without ever feeing the Land in hazy Weather; but, if you are fure of the Latitude in which you are, you may guard against this Danger: because, in twenty-three Degrees twenty Minutes, you may tee the Coast, from the River of Puercos, as far as the Bay of Matanfas; and, in this Latitude, if the Land The Shoals of cannot be feen, you are near the Shoals of St. Isabel, which, I must observe to you again, are never feen to break but in bad Weather.

St. Isabel.

North and South of the River de Puercos, and in the Latitude of twenty-three Degrees and a half, lie the Mucaras, which are narrow small Shoals; Care must here be taken how you fail, for fear of striking upon them; but, if you pass in Sight of them, there is no Danger.

find an standard commence of CHAP.

To the state of th OLE D. A Scale of One English Mile

A Plan of the

For de la Cojimar

Harbour and City

of Havana

References

a . The Parade

- b. A Gate into the Country
- c. Castle de la Punta
- d. The Fort or Governours Palace

From c to d is a Line where Brafe Guns are mounted e The Morro or Moor Caftle

ASTER CONCERNATION OF THE PARTY OF THE PARTY

CHAP. VI.

The Signs or Marks of the Coast of the Havannah, from the Shoals of St. Isabel, as far as the Point of Hicacos.

N sailing over for the Coast of Ha- Signs or Marks vannah, in twenty-three Degrees, ward Coast thirty Minutes, if you should dif- of Havannah.

cover, within Land, some high Mountains, extending from N. E. to S. W. and two of those Hills round and even, lying between S. and S. W. you are upon the Shoal of St. Isabel; for, those are the Hills of Gua-Hills of Gua-liguanico, or El Potrero, which lie on the niguanico, or S. Side of Cape Corrientes.

If you should see, between the S. and S. W., a double Land, or two Rows of Hills broken, that run to the E. N. E. Those are the Organos, and you'll be to the The Organos. North of them; they make a fort of Cleft in the Middle; and at the East End of them is an Hill, in the Form of a high Sugar Loaf, which lies over the Bay of Honda; and under the Cleft, in the Middle of

the

the Hills, is the River de Puercos, which is only fit for small Vessels; but the Bay of Honda is deep, and the Port large enough for a whole Fleet; near to the Shore, is a proper Place to take in Water: Its Entrance runs in South, and clear without any Obstruction; when you are in, you may anchor where you please, but you'll find the best Ground, near an Island that lies in the Bay: To be more fure of this Port, you'll fee in the Up-land, to the South of the aforesaid Sugar Loaf, some Hills of a moderate Height, call'd Sierras del Rofario, or de la Bréa; for, the Organos, and the Sugar Loaf lie near the. Sea-Coast si if the Day is clear, you'll fee all these Hills and the Land diffinctly.

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. If you are at Sea, off the Coast of Cavannas, you'll fee, within Land, a round Pourore and high Hill with a small Break; it has a little Wood at the Top, and another high Hill, called Pan de Cavannas; or the Loaf of Cavannas, or of Guai Jaibon; and near the Sea-Coast a double Row of little Hillocks, like unto Shepherds Cottages, from which they take their Name; these run to the East of Babia Honda, as far as Mariel, and the aforefaid Loaf appears over the Top of the Hills de Cavannas; near the midst .of

COAST of HAVANNAH, &c.

of them, where the River of Gavannas lies, and is fit for Vessels of a moderate Burthen.

When you fall in with the faid Coast of Cavannas, and are N. and S. with the faid Sugar-Loaf, you'll fee to the S. E. the Land marshy, with two Hills in Appearance like two little Islands; and beyond these, to the Eastward, lies the Port of Havannab; but, when you come near the marshy Coast, you'll discover, that Part of it, which appear'd to be two Islands, are two Hills upon the Land, whereof the Eastermost is the greatest; they are called las Mezas, or Tables of Mariel. They are all plain and level at the Top, and the Eaftermost makes with a Point like a Proa of a Row-Galley towards the Fast, and shews from the Point upwards like two Steps of a Stair-Case; about the Middle of the great Table Hill, it shews with two or three white Hollows like unto Ships under Sail, when At the Westermost End seen out at Sea. of the lesser Hill lies Port de Mariel, The Port of which affords very good Shelter, and fufficient for any Vessel; to enter which, you must make the said West End of the lesser Hill, and then you'll see the Mouth of the Port, into which you must fail, keeping most over to the Lee Shore, 'till you

you are within the Entrance, and then luff up and anchor under the Windward Shoar

The Port of

the Havannah.

of the Port de Mariel, where there is more Shelter from the Sea and Wind; on the fame Side there is fweet Water, that runs clear from a Rock: when you arrive off the faid two Hills or Tables, at the Eastermost End of the great one, you'll fee the Head or Morro, or Mountain of the Havannab; but if you come in from Sea, and fall in with the faid Tables, you'll discover in the Up-land, two middling round and even Hills, like a Woman's Breafts, which from their Form, are call'd las Tetas de Maria, or the Paps of Mary. When thefe Hills come in Sight to the East Side of the said Tables, and they bear N. and S. with you, then you'll be also N. and S. with the Port of Havannah. These

Advertisement

If in standing in for the Land, with the Trade Winds, you come near the Shoals of St. Ifabel, or the Organos, tack and stand off to Sea, into twenty-four Degrees of Latitude, and from thence make in for the Land; there is no Necessity to keep the Lead, for the nearer you come to this Leeward Coast of the Havannah, the shorter will be the Off-shore Tacks, and the sooner

two Paps, and the two Tables, are the prin-

cipal and only Marks for this Port.

you'll

you'll gain the Port; for if you fail too far from the Coast out to Sea, you'll meet with stronger Currents, and when you come in again to the Land, may be to the Windward of the Port, so much, perhaps, as to cause you much Delay and Trouble to gain the said Harbour.

But in Case you fall in to the Windward of Signs of the the Port of Havannab, and should fee to- Havannah to wards the S.E. a high Mountain within the ward. Land, fomewhat round, with a Break in the Middle, that makes it look like two different Hills: These are the Hills of Camarioca, Hills of Cawhich lie to the South of Punta de Hica- marioca. cos; and on the West of these is another Hill, with a round Loaf upon it, called El Pan de Matansas: There are likewise some Pan de Ma-Hillocks, that lie N. and S. with the Bay of tanfas. Matansas; to the West of which are some fmall Mountains, called Arcos de Cantafi; Arcos de Canwhen they bear N. and S. with you, you'H find that the Pan de Matansas, lies S.E. with Cantafi; towards the West, is a Ridge of small Hills, called las Sierras de Taruco, that lie E. Sierras de Taand W. when the Arcos de Cantafi bear N.W. ruco, or Hills and S.E. you'll be N. and S. with the Hills of Taruco, and when these Hills bear N.W. and S. E. you'll be N. and S. with the Port of the Havannah, and likewise N. and S. with the Tetas, or Paps of Maria. In

In the Middle of the Mountains of Taruco lie fome white Cliffs on the Sea Coast, called the Cliffs of Suyarima; off which is a Bank that reaches above a League and a half into the Sea, and two Leagues wide, with three and four Fathom Water, fit for middling Vessels, but in a large Ship you must take great care; for on all the rest of this Windward Coast, from the Matansas it is deep Water, and steep to the Shore; if your happen therefore to fall in with it, don't keep too far from the Land, because of the Currents without; run along the West Coast 'till you have passed the Hills of Taruco and discovered the small Fort of Cojimar; which lies a League to Windward of the Port; from whence you may fee the Head or Morro of Havannah, and arriving off this Fort, endeavour to go clear to Windward of its Point, because a Shoal runs out a little way from it; but as foon as you bring open the Fort, you are quite clear of it, and close to it you may anchor in five or fix Fathom Water; from hence you are to fail along the Coast, 'till you arrive off the faid Morro, and discover the Castle de la Punta, and the small Fort de la Chorrera; which lies to the Leeward of the Port; and when you are off the Caftle

Cojimar.

Castle de la Punta, and have brought the Port open, then spring your Luff, and run into the Harbour of the Havannah.

If the Night should come on when you are near the faid Port of Havannah, and to Leeward of it, stand in towards the Mezza grande de Mariel, and then brace too 'till Morning, when you may get to Windward with the Land Breeze, and arrive in a few Hours off the Fort, and turn into it; to enter it the better you should wait till Mid-Day, for then you'll have a brisk Wind to fail in with. If Night overtake you to the Windward of the Port, keep close to Cojimar, and brace too with the Ships Head off to Sea 'till Break of Day; if you are either to Windward, or to Leeward of the Harbour, and want a Boat from Land, fire off a Piece and shew a Light, for if they see or hear you from the Morro, they will answer you; and at Break of Day, if you are upon Cojimar, make little Sail, or lie by 'till Ten o'clock, and when you are up with the Morro you may enter the Port. I caution you to keep the Ship's Head off to Sea, in the Night-time, and lie by, because this Coast is full of Eddies and counter Currents which may run the Veffel a Shore; and if it happen that you drive towards the Coast.

it is then easy to run off to Sea: But if you lie with her Head to the Land, it will be a hard matter to ware her; therefore always avoid traverfing, as well as laying with your Head towards Land; and on these Considerations it is needful to have regard to the Coast, particularly for those that navigate in great Ships; for tho' on other accounts they are the best Vessels, yet, when they come into little Water, or near the Ground, the greatest Danger attends them. To go to Havannah Old Channel. by the Old Channel, you must fail in Sight of Punta de Maysi, which is on the East Side of the Island of Cube; the Front whereof lies N. E. and S. W. The S. W. Side feems double, and the Surface of the Land as even as a Table on the Top, from whence it de-

> clines towards the N.E. and terminates in a plain Point: All this Front has regular Soundings, and deep home to the Shore; when you are on the North Side of the faid Punta, you may anchor close to the Coast: Two Leagues more to the West of this Punta, there is a fmall Port, called Matan, where you may

> also anchor; running West along the Coast you'll see a Shore which is called Playa de Miel or the Shore of Honey, that lies five Leagues from Punta de Maysi: Near

To go to Ha-

Punta de Mayfi.

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to this Shore you may safely anchor, in eight Fathom; and here the Ships cast anchor which come in to take a Pilot at Baracoa; the Mouth of which lies about a League S. W. of the Honey Shore; It is a good Port with deep Water; the Course into it is S.W. tho' many avoid entering it because it is troublesome to come out again, for the Wind blows right in, and 'tis so very deep Water, you can't well warp out; it has a little Island in the Middle, and a Shoal near the Land to the Eastward.

When you are off the Punta de Mays, Baracoa, you may see the East Coast which is double Land, and at the Beginning of it, is the Descent of an Hill that looks like a Smith's, Anvil, and is called el Ayunque de Baracoa, or the Anvil of Baracoa, which lies upon the said Port of Baracoa, therefore steering your Course towards it, you sail directly for the Port of Baracoa; and when you see it to the S.E. stand in to the Land, to discover the Honey Shore, where you may cast anchor to get a Pilot, or provide yourself with Necessaries at Baracoa.

their Bores answerable to that of the Winds,

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CHAP. VII.

Containing Observations of the Cur-RENTS, and the VARIATION of the COMPASS.

HE Currents are every where the

Of the Nature and Properties of Currents.

greatest Obstruction a Pilot meets with; because they are only to be known by Experience and Observation: The common Opinion is, that they are caused and governed by the Wind, especially in the Seas of North-America, which abounds with a Multitude of Islands and Shoals, that lie along its Coafts. And althe without the Windward Islands, and on the rest of the Coast of North-America, there are Currents also, yet these abate their Force, and are lost when they come into the open Seas; neither have they, with high Winds, fuch Strength, as within the Islands, where we find Currents continually, and their Force answerable to that of the Winds, as Experience has shewn; for, when the Winds blow high, the Current is strong; and

and, on the contrary, weak in calm and ferene Weather; whereas, without the Harbours, Bays, and Channels, if the Current fet a Mile an Hour with a brisk Gale; it will not fet more than half a Mile in a Calm; and from these Observations, the Curious may judge of the Strength of the Currents, by the Difference of the Winds.

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By the Variation, we mean the Decli- Of the Varianation of the Magnetic Needle from the Magnetic true Meridian. If the two Extreams point Needle. due North and South, there is no Variation ; but, if the North Point of the Needle incline to the East Side of the true North, then, we say, the Variation is Easterly: In like manner, if it incline to the West of the true North, we fay, the Variation is Westerly. This premised, I shall set down what Variation the Needle has this present Year 1718. in the several Places heréaster mentioned. But, as Opinions concerning the Cause hereof are various, and that we are certain the Variation itself changes and Note, The alters, it would be proper for every Person Easterly Variation at preto observe the Needle's Variation all along sent dicreases during the Course of his Voyage.

N.B. " The Imperfection of the present Indies, and "Instruments for observing the Variation, increases."

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every where in the West-

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induced

"induced Capt. Middleton, and the Editor, to contrive a New Azimuth Compass for that Purpose; which was tried at Sea, and approved, both on account of its Ease and Accuracy: It has been fince improved by Capt. Jos. Harrison, and requires but one Person to manage in the Time of Observation; It is likewise useful in finding the Altitude of the Sun or a Star without an Horizon; a further Account thereof may be seen in a little Trast, intituled, The Description, Use and Excelusion, of Mr. Smiths New Sea-Quadrant, &c. printed at the End of this Treatise.

The first Description contains Part of the Bay of Mexico, and its Shoals, with the Coast of New Spain, New Andaluzia, and New Biscay.

Concerning the Currents in the first Description.

Within the Harbours, Bays, Streights, and Channels of these Parts, as we said before, the Currents are stronger and weaker, as the Winds happen to be; for, the Currents abate when there is little Wind, as we find by Experience in the Streights, or Channels, of Bahama, during calm Weather; and, agreeable to this Observation, in the Bay of Mexico likewise the Currents follow

follow the Force and Direction of the Winds, and the Ranging of the Coasts; that is to say, by the Easterly, or Trade Winds, the Currents set N. W. but by the Northerly, and Land Winds, they set S. E. and near the Shoars, they run along them, according to the Winds that blow there; which likewise occasion frequent Eddies or counter Currents, especially on those Coasts that lie nearly East and West.

In this first Description of the Bay of Concerning the Mexico, the Variation is Easterly; that is to the Compass say, in that Part of it, among the Shoals Description. of Campechy, it is 3° 20'; and when you are out of Soundings 4° 30'; in the middle of this Bay 5° ½ to 6°; and on the Coast of La Vera Cruz it amounts to 7°.

The second Description contains another Part of the Bay of Mexico, and its Shoals; with the Coast of Yucatan, New Biscay, and Grand Florida.

In this Description the very same happens Concerning the as in the former; the Currents taking their the second De-Course among the Shoals, as the Channels scription. run, causing counter Currents also near the Shoars, according to the Force and Direction of the Winds which blow there.

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Concerning the the fecond De-Scription.

In this Description, within Soundings Variation of the Compais in near Cape de Catoche the Variation is five Degrees and a half Easterly; and from this Place to the Negrillo, it diminishes to three Degrees and a half.

> The third Description contains the Coast of Yucatan, Guatemala, Honduras, Nicarragua, and Costa Rica.

Concerning the Currents in the third Description.

The Course that the Currents take in this Description is as follows; with the Easterly or Trade Winds the Current fets, in Cofta Rica and Nicaragua, to the North along the Coast, as far as Cape Gracios a Dios; and among the Shoals of the faid Coasts there are Eddies or counter Currents; but when you come to the faid Cape it runs to the West, into the Gulph of Honduras; from thence it turns it's Course, and runs to to the N. and N. E. according to the ranging of the Coast; and within Sight of Cape de Catoche it sets to the N. E.

With the Land Winds the Current runs, on Coffa Rica, towards the East; and on Cofta Nicaragua, towards N.E. and among the Shoals according to the Situation and Pofition of the Entrance into them. With

the

the Northerly Winds there is no Current on these Coasts; (except that between their Islands and Shoals a small Current sets towards the South,) for their Course with the N.E. and N.W. Winds tending generally towards N. W. and N.E. the North Winds oppose and stop their Motion.

The Variation is every where five De-Concerning the grees Easterly in the Places mentioned in the Compassin this Description.

the third De-Scription.

The fourth Description contains the Windward Passage, with it's Shoals, the Island of Jamaica, Part of the Island of Cuba, the Coasts of Cartagena, Terra Firma, Costa Rica and Nicaragua.

The Currents in this Description run as Concerning the follows; with the Easterly or Trade Winds, Currents in the they run to the West along all the Coast of scription. Cartagena and Terra Firma, but in their Course we find some Alterations, occasioned by counter Currents; and without, at some Distance from the said Coasts, they run towards the N.W. On the Coasts of Jamaica and Cuba, they run along Shoar towards the West; and between Jamaica, Hispaniola, and Cuba, they run to the N. and N.E. in-

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to the Entrance between Cuba, and Hifpaniola, and the Islands to the North of them.

With the Land Winds, the Currents set Eastwards, on the Coast of Terra Firma, and Cartagena, with many counter Currents in the Bay of Playon; and without, at a Distance from the said Coasts, they set towards the N.E. and among the Shoals, they run according to the Situation of the Entrance into them; where these Winds commonly cause many Alterations in the Currents.

With the Northerly Winds, (which make a smooth Sea) the Currents set Southerly,

in the Windward Passage.

Concerning the Variation in the fourth Description.

The Variation is Easterly in this Description, that is to say, between the Coasts of Cuba, Jamaica and the Caimanes, sour, sive and six Degrees; and rises and falls within the said Limits, as far as Cape de Catoche. On the Coast of Terra Firma it is three Degrees, but on the Coast of Cartagena we found no sensible Variation of the Needle.

The fifth Description contains the Coasts of Florida, the Channels, and the Islands of Cuba.

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The Currents fet in this Description in the Concerning the following manner; between Jamaica and the fifth De-Cuba, they run towards the West; and at Scription. Cape de Cruz, towards N.W. but on the Caimanes, towards the N. and N.E. to fall in with the small Channels of the Jardines; and by the Isle of Pines they fet to the S.W. 'till they come to Cape de Corrientes; for from thence to the W.N.W. and N.W. and by the Coast of Apalachy, they return to the E. and E. S. E. and S. E. at the Edge of the Soundings, near Tortugas; and from thence run towards the East, to fall into the Channels of Bahama, according to their Situation. The strongest Currents of the Waters are in the Gulph of Florida, where they run to the North 'till they come out at the Cape of Canaveral, and from thence they fet towards the N.E. losing much of their Force and Strength near Bermudas. North Side of Cuba the Current fets from Cape Maysi, towards the N.W. and thro' the old Streights of Bahama, to the W.N.W. with a small Stream; but coming to the Point of Hicacos, it runs to the N. and N. E. to fall in with the other Channels, and from the Port of Cavannas it runs towards the E. and E.N.E. sometimes violently into the faid Channels,

Channels; but from Cavannas towards the West Part of the Coast the Current alters its Course and runs to the S. W. to fall in with the little Channels of St. Isabel or Coloradoes.

With the North Winds and Land Winds the Current sets in the aforesaid Gulph, and along the Coasts of Havannah, and Florida, in the same manner as with the Trade Winds.

Of the Variation is Easterly from the Cape tion of the Compassinthe of Corrientes and St. Antony in Cuba, to fifth Descrip Cape Catoche in Yucatan, from 3 to 5 Degrees and a half; and on Cape Florida, and Cabeca de las Martires three Degrees; and through all the Babama Channel to St. Augustin in

Florida three, four and five Degrees.

The fixth Description contains the Islands of the Coast of Caraccas, the Coast of Venezula, Laguna de Maracaibo, and St. Martha, and some Part of the Islands of Hispaniola and Porto Rico.

Of the Current fets with the Trade Winds, rents in the fixed Description, to the W. and W.N.W. but near Shoar there are counter Currents, though most on the Coasts of Caraccas.

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With the Land Winds, they commonly run strong, and more especially on the Coast of St. Martha, but at the Time of the North Winds, the Currents are weak, for the said Winds do not reach these Coasts, where there is commonly fair Weather.

The Variation is Easterly, upon the afore-Of the Variation of the said Coasts in the following manner: On Compass in the those of Venezula, which reach from the fixth Description.

Cape de Codera to the Cape de St. Roman, from two to four Degrees and a half; and through all the Coast of St. Martha from the Cape de Veja five, six, and seven Degrees.

The seventh Description contains the rest of the Islands of the Channel, the Eastermost Parts of Cuba, the Island Hispaniola, that of Porto Rico, and the Virgins.

In this Description the Currents take their of the CurCourse in the following manner: In the feventh Der
Channel between Cape St. Nicholas in the scription.

Island Hispaniola, and Cape Maysi in the Island
of Cuba, they set towards the North; and
those that run by Cape Maysi, set from thence
towards the N.W. and W.N. W. and those
that fall in with the South Coast of the said
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Cape, run along it towards the West by the Coast of Cuba; and those that take their Course by Cape St. Nicholas, on the Landside, run towards the East to fall in between the Coasts and the Island Tor. tuga; from whence they take their Course towards the North and N.W. to fall into the Channels which are made by the Islands and Shoals situated towards the North of the aforesaid Islands of Cuba and Hispaniola, as it does between Mayaguana and Caicos, and the rest of the Islands and Shoals of Jumento, Triangulo, Miracombas, Juma, Samana, &c.

In the Bay of Piliguao, the Current runs in Eddies with a flow Motion: Along the North and South Coasts of Hispaniola, the Current sets with the TradeWind towards the West, and on the North Coast it inclines towards the N.W. to fall in with the

Shoals.

On the Eastermost Part of the said Island, they run in counter Currents, and so go through their Bays, particularly in the Bay of Samana; on the Virgines and Porto Rico, the Current sets to the West, with the Trade Winds; and along Pasaie runs through towards the N. W. and in the Westermost Part of the said Island of Porto Rico, the Currents

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Currents are changeable, inclining more, as they run to the faid Bay of Samana, towards W.N.W.

The Variation is Easterly from the Vir- of the Variagines to La Aquada of Porto Rico, from four tion of the Compais in to fix Degrees, and at Cabo Roxo one Degree the feventh and a half. In Sight of Cape de Samana Description. the Needle inclines to the N.W. one Degree and a half; and in Sight of Cape Frances of the Island Hispaniola, the Needle inclines again towards the N.E. four Degrees; and on all the Northerly Coast of that Side to that of Cuba from four to five Degrees.

The eighth Description contains the Coasts of Carolina, Virginia, and the Mouth of the Channel to Bermudas.

In this Description the Current, as soon of the Currents in the as it comes out of the Gulph of Florida, be- eighth Detween Cape Canaveral and the Channel of Jeription. Babama, divides into two Parts; one Part fets away E.N.E. and E, 'till within a little of Bermudas; from whence it returns back towards the South, with the Trade Winds, 'till it insensibly loses its Strength. other Part takes its Course along the Coast of Carolina towards the N.N.E. and E.N.E.

according

according as the Coast ranges from Point to Point, as far as Cape Roman, where it again divides, Part of it taking it's Course along the Coast of Virginia, and the rest towards the E. and S. E. which at a small Distance loses it's former Strength. These Currents are subject to great Alterations by the variable Winds, which blow here, and occasion many unaccountable counter Currents.

Of the Variation of the Needle in the eighth Defeription.

The Variation in this Description is Easterly in the Bahama Channel, Cape de Canaveral, and Florida, three, four and five Degrees; and on all the Coast of Carolina to the Cape of St. Roman five and six Degrees, Westerly; and on the Coast of Virginia, and the Ocean to the N. of Bermudas from seven to ten Degrees, Westerly.

The ninth Description contains the Windward Islands, from that of Porto Rico, to that of La Trinidad, and Margarita, with the Coasts of Guayana, and Paria.

Of the Currents in the following manner; in the Ocean, between the Canary, and Cape Verde Islands, and the Windward

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Windward Islands, we seldom meet with any Currents, except where the Trade Winds blow, for there generally we find Currents one hundred and one hundred and fifty Leagues to the East of the said Windward Islands, which set towards the W.N.W. and coming to those of St. Bartolome and St. Martin, upon the North Side they follow the same Course of W.N.W. when distant from the Coast, but when near Porto Rico, and the Virgines they run to the West along the Shore.

Without the Islands de la Trinidad, the Currents run towards the N.W. and here their Force increases by the Waters coming from the great Rivers of the Coasts of Cayana, and Guayana; and arriving to the Eastward of the faid Islands, run into their Channels, but on the West of the said Islands they reassume their Course of W.N.W. and of N.W. to fall in with Pafaje and the Virgines; and between la Trinidad and the Coast they run along the Shore with Violence, occasioned by the great River of Oreonoko, though they are appealed by the Tides, which run through to Labocade los Dragos, and from thence towards N.W. and W.

W.N.W. to the small Channels de los Testigos y Frailes, and the Island Margarita, where, and on the Coast of Paria they run regularly; but here 'tis necessary to keep a good Look-out, as the Seamen term it.

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Of the Variation of the Needle in the

In this Description the Variation is Eafterly, viz. In the Ocean, from two hundred ninth Descrip- Leagues to the West of the Canaries, to two hundred Leagues to the East of the Windward Mands, there is no fensible Variation of the Needle; and within two hundred Leagues to the East of the Windward Islands, it begins to vary towards the Eaft, from thence to the faid Islands, one, two and three Degrees; and from the Island of Trinidad, to la Margarita, and as far as Cape de Codera, scarcely one Degree. Enlaward of the faid Hands run

> The tenth Description contains the Caribbee Islands, with the Coast of La Guayana and la Cayana, as far as the Equinoc-Could they run along the Shore

Of the Currents in the tenth Description.

In almost all this Description the Currents fet towards the N.W. W.N.W. and W. according as the Coasts range; and the nearer it is to the Shoar the stronger they run, on account

the CURRENTS, &c.

129

Account of the Waters issuing from the Rivers, which are many and great.

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The Variation of the Needle in these Seas Of the Variation of the is very small, the greatest Inclination to the Compass in N.E. being two Degrees near the Shore, the tenth Deard but one Degree at some Distance from it; but we find a greater Variation on all the Coast of Brazil.



Languard Harding Tolking Tolking

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od Shallops being very dangerous by Realth

Well-Milling thereing in Jenny Digition, which we which the sales it A N by Cay come William Parker, of Plymotith, Gimbersum, the second vento Da i of Plymotith, Gimbersum, the second vento Da i of Plymotith in the sales in th

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parties from the Leavence.



APPENDIX.

A TABLE made in the manner of an ALPHABETT, for the easier findinge of the Streates, and chiefest Places portraited in the Drafte of Portabell, beinge in the West-Indies, standing in tenne Degrees, which was taken by Captaine William Parker, of Plymouth, Gentleman, the Seaventh Daye of Februarie 1601, being there Admyrall; Robert Rawlin, Vice Admyrall, Edward Gyles, and Philipp Warde, Gentlemen, Captaines by Land; with Captaine Fugars, Captaine Lorimer, and Captaine Ashley, and dyvers others Gentlemen and Souldiors, Marryners and Saylors, to the number of 150, which were landed, whereof 20 were hurt with the Bullett, and one Slain in wynnyng of a Piece of Ordinaunce from the Enemye.

A. HE Bastimentoes, (about six Leagues from Porto Bello) between which and the Mayne I went with my two Pynnaces and two Shallops being very dangerous, by Reason of

of many Sholes beinge there and it beinge Night.

- B. An Island, called Cagathoe.
- C. The Place where my Shippes roade, beinge the Rock where Sir Francis Drake his Coffin was throwne over boarde.
- D. The Eastermost Forte, called Saint Phillippes Forte, wherein were thirtie five Pieces of braffe Ordinaunce, befides fifty Souldiers which keepe the Forte continually, having a Howse of Lodging near unto it.
- E. The Place where I anchored with my Pynnaces, hauing my Shalloppes halde upp close by there Sydes, when the Forte hayled me, and commaunded me to anchor, which I did.

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- F. A House built upon a Friggot and a small Bay goinge in fast by it.
- G. The Westermost Forte, called Saint Diagoes Fort, having thirtie Souldiors in itt, and five Pieces of Ordinaunce, the which they carved over to the great Fort fauinge one braffe Piece, which they were bringinge towards the Towne to playe upon my Men as they past to and fro to our Boats, against whom I sent Captaine Gyles who

APPENDIX.

who won the same from them but with the Losse of one Man.

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- H. One other Fort or Ploatforme, wherein were no Ordinaunce.
- I. A Towne, called the *Triana*, where I landed with my two Shalloppes having with me no more but 28 or 30 Men, with whom I marched from thence to the great Towne, the which *Triana* I caused to be burnt.
- K. A Fort which they are now a buildinge upon a Hill, hauinge close by it a Ryver which cometh downe from the Mountaynes, and runneth foorthe into the mayne Ryver, which Fort will both commaunde the Towne and the Ryver.
- L. The Key where the two Pynnaces landed the rest of my Men, att the greate Towne, an hower after my landing.
- M. A great Storehouse, with Dwellings in itt, which Storehouse was full of greate Tymber for the buildinge of Shippes.
- N. The Place where two Frigottes road, the one of them havinge in hir three Pieces of Ordinaunce, the which I likewise tooke and brought from thence with me, with the which Ordinaunce we beat upon the Enemye

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Enemye marchinge to us from the Wester Fort.

- O. The Kinge's Howse, wherein were two Pieces of Braffe mounted upon two Fielde Carriages and two hundred and fifty Souldiors belonginge to the Howse and the Towne, befides a Companye of Townsmen which do usuallie keepe theire Court of Guarde in the Kinges Howse, which Howse when the Kinges Gallyons come thither is full of Treasure, and at no Tyme ells, in which Howse at our first cominge to Towne, our Leinetenaunte, Samuel Barnett, was shotte on the Syde of his Head and through his Eare, and Captaine Gyles coming to seconde him was likewife shott over the Breaste and throughe his Arme.
- P. The Market Place, or Courte of Guarde.
- Q. Certaine verie fair Howsen, wherein dwelt the Sarjeant Major, with other chiefe Commaunders, at which Place we kept our Court of Guarde.
- R. A Rowe of Howsen, wherein dwelt dyuers Merchants.
- S. The Brydge, with a great Ryver runninge under it, which cometh from the Mountaynes and runneth foorth into the Ryver.

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T. The Alkayes House, or Prison, who fled the Town, havinge a verye fayre Chayne of Gold about his Neck.

U. The Churche, called Saint Maryes Churche.

X. The Streat where Petro Malendus gathered 60 Souldiors together, and was comminge towards the Brydge for to encounter with me, I havinge then not above 8 or 9 Men with me for to withstand them, but God did prosper our Proceedings mightelie, for the first two Shott which went from us thot Malendus through his Targett, and went throughe both his Armes, and the other Shott hurted the - Corporall of the Fielde, whereupon they all retired to their House which they made good untill it was almost daie; against whom I fent Captayne Ward, with some Souldiors, who entered the House killing divers of them, and wounded Malendus in eight Places more, himfelf being shot through both his Thighes in entring, and fome of his Men hurt. My felf, with others, went to the Kinges House, wherein were many of the King's Souldiors, who would not come to any Composition, but stoutlie defended the same against Captaine

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Captaine Gyles and our Leiuetenaunte, who in the Ende slewe dyners of them, and hurt many others, taking the Kinges Scriuana Prisoner, which Scriuana, beinge a Man of good accompte, I sett at Libertie with the rest after my Departure from Porta Bell. This Fighte endured for the Space of sower or five Howres.

- Y. The Way that leadeth to Pennemau, being full of all Sorts of Artificers, at the End whereof we made a Barracathoe, where Captayne Gyles stood with another Court of Guarde beinge dyvers and sundrie Times assaulted by the Enemie.
- Z. The House where Petro Malendus dwelt beinge chiefe Captaine of the Towne.
- A.A. A Streat full of all Sorts of Artificers, with two other Streates or Ways leading to the Westermost Fortes.
- B.B. Another Church and a Streat beinge full of all Sorts of Artificers.
- C.C. Certayne out Housen wherein ther Neagors dwelt, the which I caused to be burnt, and att the Beginning of the Night I embarked my Men and sett saile to departe, but in going out I was shot in att the Elbowe, and out at the Wrest with a Musket-shot which came from the Wester I 4 Shoare,

Shoare, whereof there was many shott over us, besides 28 great Shott from the Easter Forte which did indaunger us often, but God so wrought for us that we safely gott forthe againe contrarie to the Expectation of our Enemyes, who made an Accompte to sinck us in going forthe.

D.D. The Place where I stay'd after my Departure from Portabell, with both the Frigottes, my two Pynnaces and Shalloppes, untill my Viceadmyrall brought my Shippes thither; where I sett the Scriuana with the rest ashore; and the next Daye beinge the ninthe of Februarie, I sett sayle and stood off to Sea.

FINIS.

A Seast Fall of all Born of Anife





A Plan of the Harbour and Town of Porto Bello-



INDEX.

A Dvertisement concerning the Port of La Vera Cruz in La Movila
foggy Weather — pag. 24 in clear Weather—27 concerning the Port of — Playon—70 and 73 Havannah—108 Alkaye of Portabell fled—135 Almirante of the Galleons ftruck, where—68 Alvarado, River of—40 Apalachy inhabited by Spaniards Auguftin, St. in Florida—ib. Advice Ship, from Spain, lost 68 Bank el atto de Simon—40 Boca Chica the Entrance of Cartagena—68 Boca Chica the old Entrance 69 Grande, the old Entrance 69 Grande, the old Entrance 69
foggy Weather — pag. 24 in clear Weather—27 concerning the Port of — Playon—70 and 73 Havannah—108 Alkaye of Portabell fled—135 Almirante of the Galleons ftruck, where—68 Alvarado, River of—40 Apalachy inhabited by Spaniards Auguftin, St. in Florida—ib. Advice Ship, from Spain, lost 68 Bank el atto de Simon—40 Boca Chica the Entrance of Cartagena—68 Boca Chica the old Entrance 69 Grande, the old Entrance 69 Grande, the old Entrance 69
- in clear Weather—27 - concerning the Port of Playon—70 and 73 Havannah—108 - Spirito Santo—64 Alkaye of Portabell fled—135 - Punta de Anton Lizardo Almeria, Plains of,—35 - 35 - 100 Almirante of the Galleons ftruck,—Samba—65 - where—68 - Alvarado, River of—40 - Apalachy inhabited by Spaniards - Augustin, St. in Florida—ib. Advice Ship, from Spain, lost 68 B. Boats trade from Alvarado—38 Boats carry Salt from Campechy B. Boca Chica the Entrance of Cartagena—68 - Grande, the old Entrance 69 - Grande, the old Entrance 69
Havannah — 108 — Spirito Santo — 64 Alkaye of Portabell fled — 135 — Punta de Anton Lizardo Almeria, Plains of, — 35 Almirante of the Galleons ftruck, — Samba — 65 where — 68 — Xagua — 92 and 97 Alvarado, River of — 40 — Tolu — 71 Apalachy inhabited by Spaniards Bernall — 25 Augustin, St. in Florida — ib. Advice Ship, from Spain, lost 68 Boats trade from Alvarado — 38 Boats carry Salt from Campechy B. Bank el atto de Simon — 40 Boca Chica the Entrance of Cartagena — 68 — el Buey — ib. — la Cuchilla — 32 — Grande, the old Entrance 69
Havannah — 108 Alkaye of Portabell fled — 135 Almeria, Plains of, — 35 Almirante of the Galleons ftruck, — Samba — 65 where — 68 Alvarado, Riwer of — 40 Apalachy inhabited by Spaniards Augustin, St. in Florida — ib. Advice Ship, from Spain, lost 68 Boats trade from Alvarado — 38 Boats carry Salt from Campechy B. Bank el atto de Simon — 40 Boca Chica the Entrance of Cartagena — 68 — 12 Grande, the old Entrance 69
Alkaye of Portabell fled —135 Almeria, Plains of, ——35 Almirante of the Galleons struck, —Samba ——65 where ——68 Alvarado, River of ——40 Apalachy inhabited by Spaniards Augustin, St. in Florida ——ib. Advice Ship, from Spain, lost 68 Boats trade from Alvarado —38 Boats carry Salt from Campechy B. Bank el atto de Simon ——40 Boca Chica the Entrance of Cartagena ——68 ——el Buey ———ib. ——la Cuchilla ——32 ——68 ——68 ——68 ——68 ——68 ——68 ——68 ——6
Almeria, Plains of,
Almirante of the Galleons struck, ——Samba ———————————————————————————————————
Alvarado, River of
Augustin, St. in Florida ——ib. Advice Ship, from Spain, lost 68 Bernall ——25 Bilanders of Jamaica Fish, where 87 Boats trade from Alvarado —38 Boats carry Salt from Campechy B. Boats carry Salt from Campechy Boca Chica the Entrance of Cartagena ——68 ——el Buey ——ib. ——la Cuchilla ——32 Grande, the old Entrance 69
Augustin, St. in Florida ——ib. Advice Ship, from Spain, lost 68 Bernall ——25 Bilanders of Jamaica Fish, where 87 Boats trade from Alvarado —38 Boats carry Salt from Campechy B. Boats carry Salt from Campechy Boca Chica the Entrance of Cartagena ——68 ——el Buey ——ib. ——la Cuchilla ——32 Grande, the old Entrance 69
Augustin, St. in Florida ——ib. Advice Ship, from Spain, lost 68 Boats trade from Alvarado —38 Boats carry Salt from Campechy B. Boats carry Salt from Campechy Boca Chica the Entrance of Cartagena ——el Buey——ib. Lagena ——68 ——ala Cuchilla ——32 ——ala Cuchilla ——32
Augustin, St. in Florida — ib. Advice Ship, from Spain, lost 68 Boats trade from Alvarado — 38 Boats carry Salt from Campechy B. Boats carry Salt from Campechy Boca Chica the Entrance of Cartagena — 68 — el Buey — ib. — la Cuchilla — 32 Grande, the old Entrance 69
Boats trade from Alvarado —38 Boats trade from Alvarado —38 Boats carry Salt from Campechy B. Boats carry Salt from Campechy Boca Chica the Entrance of Cartagena —68 —el Buey—ib. —la Cuchilla —32 —Grande, the old Entrance 69
Bank el atto de Simon — 40 Boca Chica the Entrance of Car- el Buey — ib. tagena — 68 — la Cuchilla — 32 — Grande, the old Entrance 69
B. Bank el atto de Simon — 40 Boca Chica the Entrance of Car- el Buey — ib. tagena — 68 — la Cuchilla — 32 — Grande, the old Entrance 69
Bank el atto de Simon — 40 Boca Chica the Entrance of Car- el Buey — ib. tagena — 68 — la Cuchilla — 32 — Grande, the old Entrance 69
la Cuchilla 32 Grande, the old Entrance by
la Cuchilla 32 Grande, the old Entrance by
la Cuchilla 32 Grande, the old Entrance by
Diables de Triasibdel Toro en Mouth of the
Diablos de Trias — ib. — del Tolo, or monto of the
-of Sand - 32 and 37 Bull - 79
Bar of Tuspa — 34 Boquilla — 36
Bar of Tuspa 32 and 37 Bull 79 Bar of Tuspa 34 Boquilla 36 Barnet, shot thro' the Side of his Buena Vista 71 Head 133
Head133
Bay of del Almirante —————70
-Ascenscion
- Cangrejera - 67 Caleta of La Vera Cruz - 17
Carlos 63 Campechy, Log Wood cut - 49
Guaniguanico — 66 Canal de Juan grande — 39 Cape Lobo — 62
Guantinama 53 and 98
-Gulph of Darien - 70 Tiburon 70 and 94
-Honda
Bay of Metanzas ————————————————————————————————————
Bay of Metanzas San Anton Ioi

I N D E X.

Cape Roxo pag. 32	Coast of Mero Grande-pag.111
Cape Roxo pag. 32 de Cruz 92	Nauta 35 Rocala 58
Cartagena ————————————————————————————————————	Rocala 58
Castle of Bocha Chica - 71	- New Spain, inhabited 31
Correra——110	Playa Grande 67
- St. Juan de Ulva -14	- Tavaleg, or S. Peter and
- de la Punta	Paul Tufpa 34
	Tufpa 34
Cavezas, formerly two Islands, but	Excudo de Veraguas 79
Sund by a Storm 39	Conil, Mourbs of 49 and 53
Careening Place for Ships 19	Commar, Fort of
Cafamaloapa, our Lady 40	Cliffing Suyarima b.
Cayos del Marquez - 61	Courfes from the Soundings of
de la Magdalena 77	Campechy to Vera Cruz in
Cantoy 52	Winter15
- Cavellones - 91	- in Summer 17
la Reine ——ib.	at any Time -19
St. Diego ———63	from Gabe Cruz to New
Tortugas 103	Spain - 07
Chicalango, a Careening Place 49	from Cartagena to Ha- vannah 84 from Campechy to Car- tagena 54
Chicalango, a Careening Place 49	vannah 84
Channels between the Islands	- from Campechy to Car-
Verde, Anegada and Blan- quilla20	tagena 54
quilla — 20	from Campechy to Ha-
Charca, a Place to take in Water	vannah — 58 to Campechy by the Goaft
Choca, or Cottage of Vigiero 47 Cofre de Perole 36	- to Campechy by the Goaft
Choca, or Cottage of Vigiero 47	52
Cofre de Perole36	from Capes Corrientes
Coast of Almeria 35 New Andaluzia, not in-	and San Anton, to Vera Cruz
New Andaluzia, not in-	and Campechy-49
babited - 30	- from Cartagena to Porto
Barocoa in Cuba—113	Bello in Time of Trade Winds
- New Biscay, not inha-	
bited 30	- in time of Land Winds 74
Cavannas ———— 106	from the Port of Cam-
Cabo Roxo33	pechy in Winter18
Cartagena 67	in Summer-19
- Costa brava de Sabru-	
Chacalaca 45	tagena 81
Chacalaca 37	tagena 81
Chagres 81	Campechy to Vera Cruz -19
Playa de Miel 112	from Vera Cruz to Cam-
Cofta Rica 78	pechy at all Times21
Grand Florida 61	from Vera Cruz to Ha-
Guazaqualcos 21	vannah in North-Winds - 23
Honduras - 57	Cupila 48
Mifapa 29	Cur-

IXNA DO ENXI

urrents, an Obstruction to Ma-	D.1
inerspage 114 alter their Direction and	A total and the same of the state of
with the Winds -116	Desconicida Lat. 21° 41 and 55
in the Bay of Mexico,	Desconicida Lat. 21° 41 and 55
oasts of New Spain, New	Dock for building Ships 47
ufia, and New Biscay	Date Trees100
ibid.	Danger on the Windward Coast
n another Part of the	of Havannah ——————————————————————————————————
lexico, and its Shoals;	of HavannahIII
of Yucatan, New	E. squid
and Grand Florida	olaman and olaman
	English Pirate, bis Discovery 53
the Coast of Yucatan,	ingain I water, bis Discourt 53
ole Wandwees Ni	The same of the sa
ala, Honduras, Ni-	got (Ferngigue)
a, and Costa Rica 118	4 Commenter Profite \$4 C2018 2 Comment
n the Windward Pas-	French Settlements in the Bay of
nd its Shoals; the Island	St. Bernardo 30
, Part of the Island	- Ships Shelter'd, where 39
the Coast of Carta-	Fish called Pargos and Zargos 43
ra Firma, Costa	Fort of Aquadores in Cuba -95
Nicarragua -119	St. Philip
e Coafts of Florida,	St. Diago ibid.
els and Islands of	Fortress of St. Mary de Galve 62
120	on the River Chagres 80
Coafts of Carrac-	La Frazia — 56
	18 and the age of the property of the State
ula, Laguna de Ma-	wood at on an Go arman a
St. Martha, and some	with I ab an a wine with winner want
lispaniola and Porto	Called Co.
122	Gallega 17
the Easterly Parts of	Galleon called Santiego, lost 58
spaniola, Porto Rico	Galleons, the Way they used for-
Virgins ——— 123	merly to enter into the Harbour
the Coasts of Caro-	of Cartagena69
ginia, and the Mouth	Governour at the Town of Ta-
annel to Bermudas 125	vaíco48
m Porto Rico to la	vasco 48 Gracias a Dios, Cape of 94
and Margarita, with	Gulob of Darien
to of Guayana and	Gulph of Darien
126	Guazaqualcos, Goaft of, lies Baft
	and West 21
be Caribbee Islands,	The Control of the Co
Coasts of la Guayana	Gyles, Capt. Shot thro' his Arm
yana, as far as the	133
	- took the Scrivana Prisoner
128	
128	at Porto Bello — 134

IXNIDEXX.

H. Indians, fome antient Buildings of theirs pag. 58 Bernal el Chico 37 Cabecha de Catuca 74 del Almerante 79 del Aquila 72 del Bréa 106 S. Blas, or Sierras Lloronas 75 Chiapa 48 de Cloque 80 Gavilan 92 Gregorias 34 Gregorias 34 Guaniguanico 105 Feloro 84 Ia Popa 71 Punta de Crux 74 las Tetas de Maria, or Paps of Mary 108 Miguel de la Borda 70 Miguel de la Borda 70 Marieh 107 Pan de Matanías 109 the Old Mines, or Minas 109 the Old Mines, or Minas 109 Viegas 81 Nuestra Senora de la Popa Fuerto 72 and 83 Fan de Cavannos 107 Organos 105 Pan de Cavannos 107 Organos 105 Cavanario 92 del Fesoro 84 Narieh 107 Pan de Matanías 109 the Old Mines, or Minas 109 Tiede Ropa 72 Tiende Ropa 74 Salamanca 81 Navaza 94	Contract HI	Indians, Some antient Buildings of
Carribbee 79 Cabecha de Catuca 74 del Almerante 79 del Aquila 72 Arenas 65 de la Bréa 106 Arcas 21 Arenas 65 Arcas 21 S. Blas, or Sierras Lloronas del Aqua 75 and 83 Copper; del Cobre 95 Chiapa 48 de Cloque 80 Gavilan 92 Gregorias 34 Gauniguanico 105 Feforo 84 la Popa 71 la Punta de Crux 74 las Tetas de Maria, or Paps of Mary 108 Camarioca 109 Miguel de la Borda 70 Morro Hermocos 65 Mariel 107 Pan de Matanías 109 tibe Old Mines, or Minas Viegas 81 Nuestra Senora de la Popa 105 Arena 105 Pan de Cavannos 105 Pan de Matanías 105 Arena 105 Arena 105 Baltimentos 76 Cavezas, funk 39 Cagathoe 131 Cagathoe 131 Baltimentos 78 Cavezas, funk 39 Cavezas, funk 39 Careta 105 Caimanes, Great and Small 88 Pan de Matanías 109 tibe Old Mines, or Minas 109 Tibe Old Mines, or Minas 109 Toganos 105 Lobos 33 Ios tres Hermannos 78 Locudo 79 Organos 105 Lobos 33 Ios tres Hermannos 79 Cagathoe 131 Anarajos 34 Ios tres Hermannos 79 Locudo 79 Organos 105 Lobos 33 Ios tres Hermannos 78 Ios Hermannos 79 Naranjos 84 Naranjos 84 Naranjos 84 Naranjos 84 Naranjos 85 Naranjos 85 Naranjos 81 Naranjos 84 Naranjos 85 Naranjos 85 Naranjos 81 Naranjos 81 Naranjos 84 Naranjos 85 Naranjos 85 Naranjos 81 Naranjos 84 Naranjos 85 Naranjos 85 Naranjos 85 Naranjos 86 Naranjos 86 Naranjos 86 Naranjos 86 Naranjos 87 Naranjos 81 Naranjos 81 Naranjos 81 Naranjos 81 Naranjos 84 Naranjos 85 Naranjos 81 Naranjos 84 Naranjos 85 Naranjos 81 Naranjos 82 Naranjos 90	Hills of Baracoa in Cuba, p.113	theirspag. 58
del Almerante 79 del Almerante 79 del Aquila 72 Arenas 59 de la Bréa 106 S. Blas, or Sierras Lloronas del Aqua 75 and 83 Copper; del Cobre 95 Chiapa 48 de Cloque 80 Gavilan 92 Gregorias 34 Guaniguanico 105 Feforo 84 la Popa 71 las Tetas de Maria, or Paps of Mary 108 Camarioca 109 Camarioca 109 Miguel de la Borda 70 Morro Hermocos 65 Marieh 107 Marieh 107 Pan de Matanías 109 tobo Old Mines, or Minas Viegas 81 Nuestra Senora de la Popa 68 Pan de Cavannos 107 Organos 105 Lobos 32 del Aqua 75 and 83 Figure 61 Arcas 21 Arenas 59 Andrea 75 El Altajo 41 El Altajo	Bernal el Chico 37	- Carribbee - 73
del Aquila		Indian Towns
de la Bréa		Illand of Alacran
S. Blas, or Sierras Lloronas 75 El Altajo 41 Copper; del Cobre 95 St. Andres 77 Chiapa 48 Baru 61 de Cloque 80 in the Entrance of Baza- Gavilan 92 Coa 124 Gregorias 34 of San Bernardo 71 Guaniguanico 105 Baftimentos 76 Fesoro 84 Blanca 38 la Popa 71 Blanquilla 20 Isla Popa 11 Blanquilla, near Isla Blanquilla 20 Isla Popa 11 Isla Blanquilla, near Isla Blanquilla 20 Mary 108 Cayezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Columel 58 Mariel 107 Small 88 Nurestra Senora de la Popa 58 Pan de Matansa 109 the Old Mines, or Minas 109 Isla Blanquilla 20 Isla Blanquilla 20 Cayezas, funk 30 Dake's 76 El Altajo 41 El Altajo 41 At El Altajo 41	del Aquila	Arenas — 6c
S. Blas, or Sierras Lloronas 75 El Altajo 41 Copper; del Cobre 95 St. Andres 77 Chiapa 48 Baru 61 de Cloque 80 in the Entrance of Baza- Gavilan 92 Coa 124 Gregorias 34 of San Bernardo 71 Guaniguanico 105 Baftimentos 76 Fesoro 84 Blanca 38 la Popa 71 Blanquilla 20 Isla Popa 11 Blanquilla, near Isla Blanquilla 20 Isla Popa 11 Isla Blanquilla, near Isla Blanquilla 20 Mary 108 Cayezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Columel 58 Mariel 107 Small 88 Nurestra Senora de la Popa 58 Pan de Matansa 109 the Old Mines, or Minas 109 Isla Blanquilla 20 Isla Blanquilla 20 Cayezas, funk 30 Dake's 76 El Altajo 41 El Altajo 41 At El Altajo 41	de la Bréa	Arcas
Copper; del Cobre 95 St. Andres 77 Chiapa 48 Baru 61 de Cloque 80 in the Entrance of Basa- Gavilan 92 coa 124 Gregorias 34 of San Bernardo 71 Guaniguanico 105 Baftimentos 76 Feforo 84 Blanca 38 la Popa 71 Blanquilla 20 Punta de Crux 74 Ifla Blanquilla, near Ifle las Tetas de Maria, or Paps of Mary 108 Cavezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Morro Hermocos 65 Marieh 107 Small 88 Marieh 107 Pan de Matanfas 109 tibe Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Feforo 84 Nuestra Senora de la Popa Fuerto 72 and 83 Pan de Cavannos 107 Corganos 105 Lobos 33 los tres Hermannos 8 Pan de Cavannos 107 Corganos 105 Lobos 33 del Potrero ibid. Mugeres 52 de Perico 94 Santo Espirito 92 Veraguas, or del Almirante Pinos, Lat. 10° 40′ Pardines 97 Indians civilizad 73 Indians civilizad 73 Indians civilizad 73 Indians civilizad 73	S Plas or Sierras Lloronas	del Aona ar and 82
Gavilan 92 coa 124 Gregorias 34 of San Bernardo 71 Guaniguansco 105 Baftimentos 76 Feforo 84 Blanca 38 la Popa 71 Blanquilla 20 Punta de Crux 74 Ilfa Blanquilla, near Ifle las Tetas de Maria, or Paps Cayezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Cojumel 58 Mariel 107 Pan de Matanfas 109 The Old Mines, or Minas Excudo de Varaguas 76 Wiegas 81 del Feforo 84 Nueftra Senora de la Popa 68 Pan de Cavannos 107 Corganos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Corganos 105 Drake's 76 Mugeres 52 Drake's 76 Mugeres 68 Pan de Cavannos 107 Coudo 79 Corganos 105 Drake's 76 Mugeres 72 Drake's 76 Mugeres 77 Locudo 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 77 Drake's 76 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70	111 and the second of the seco	El Almia
Gavilan 92 coa 124 Gregorias 34 of San Bernardo 71 Guaniguansco 105 Baftimentos 76 Feforo 84 Blanca 38 la Popa 71 Blanquilla 20 Punta de Crux 74 Ilfa Blanquilla, near Ifle las Tetas de Maria, or Paps Cayezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Cojumel 58 Mariel 107 Pan de Matanfas 109 The Old Mines, or Minas Excudo de Varaguas 76 Wiegas 81 del Feforo 84 Nueftra Senora de la Popa 68 Pan de Cavannos 107 Corganos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Corganos 105 Drake's 76 Mugeres 52 Drake's 76 Mugeres 68 Pan de Cavannos 107 Coudo 79 Corganos 105 Drake's 76 Mugeres 72 Drake's 76 Mugeres 77 Locudo 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 77 Drake's 76 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70	Cotton del Colors	Ct Andrew 4F
Gavilan 92 coa 124 Gregorias 34 of San Bernardo 71 Guaniguansco 105 Baftimentos 76 Feforo 84 Blanca 38 la Popa 71 Blanquilla 20 Punta de Crux 74 Ilfa Blanquilla, near Ifle las Tetas de Maria, or Paps Cayezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Cojumel 58 Mariel 107 Pan de Matanfas 109 The Old Mines, or Minas Excudo de Varaguas 76 Wiegas 81 del Feforo 84 Nueftra Senora de la Popa 68 Pan de Cavannos 107 Corganos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Organos 105 Drake's 76 Locudo 79 Corganos 105 Drake's 76 Mugeres 52 Drake's 76 Mugeres 68 Pan de Cavannos 107 Coudo 79 Corganos 105 Drake's 76 Mugeres 72 Drake's 76 Mugeres 77 Locudo 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 76 Nueftra Senora de la Popa 79 Drake's 77 Drake's 76 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 79 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70 Drake's 70 Nueftra Senora de la Popa 70 Drake's 70	Chier; del Cobre—95	St. Andres ————————————————————————————————————
Gavilan	— Chiapa — 48	Baru - bi
Gregorias 34 of San Bernardo 71 Guaniguanico 105 Baftimentos 76 Feforo 84 Blanca 38 Ila Popa 71 Blanquilla 20 Punta de Crux 74 Ilfla Blanquilla, near Isle las Tetas de Maria, or Paps of Mary 708 Cavezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Columel 58 Mariel 107 Small 88 Mariel 107 Small 88 Pan de Matansas 109 Drake's 76 tibe Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Feforo 84 Nuestra Senora de la Popa Fuerto 72 and 83 68 los tres Hermannos 58 Pan de Cavannos 107 Locudo 79 Organos 105 Lobos 33 el Potrero ibid. Mugeres 52 de Perico 84 on the River Magdalena 106 Suerte 77 Tiende Ropa 74 Naranjos 59 Taruco 90 Pasaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 In the Bay El Playon 73 Of Punto 79 Indians civilized 73 Indians civilized 73 Indians civilized 73	- de Cloque - 80	- in the Entrance of Bara-
Gregorias 34 of San Bernardo 71 Guaniguanico 105 Baftimentos 76 Feforo 84 Blanca 38 Ila Popa 71 Blanquilla 20 Punta de Crux 74 Ilfla Blanquilla, near Isle las Tetas de Maria, or Paps of Mary 708 Cavezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Columel 58 Mariel 107 Small 88 Mariel 107 Small 88 Pan de Matansas 109 Drake's 76 tibe Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Feforo 84 Nuestra Senora de la Popa Fuerto 72 and 83 68 los tres Hermannos 58 Pan de Cavannos 107 Locudo 79 Organos 105 Lobos 33 el Potrero ibid. Mugeres 52 de Perico 84 on the River Magdalena 106 Suerte 77 Tiende Ropa 74 Naranjos 59 Taruco 90 Pasaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 In the Bay El Playon 73 Of Punto 79 Indians civilized 73 Indians civilized 73 Indians civilized 73	Gavilan 92	COA124
Feforo 84 Blanca 38 Ia Popa 71 Blanquilla 20 Punta de Crux 74 Isla Blanquilla, near Isle Lobos 33 of Mary 108 Cayexas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Cotumel 58 Mariel 107 Small 88 Pan de Matansa 109 Drake's 76 - the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Fesoro 24 and 83 Nuestra Senora de la Popa Fuerto 72 and 83 Fan de Cavannos 105 Lobos 33 el Potrero ibid. Mugeres 52 de Perico 84 on the River Magdalena 73 Tiende Ropa 74 Naranjos 81 Salamanca 81 Navaza 94 Tarquino 96 Negrillos 59 Taruco 109 Palaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto 72 Indians civilized 73 Indians civilized 57 Indians civilized 57	Gregorias34	of San Bernardo 71
Punta de Crux 74	— Guaniguanico — 105	
Punta de Crux 74	— Feloro———————————————————————————————————	Blanca 38
Punta de Crux 74	la Popa71	Blanquilla ——— 20
of Mary 108 Cavezas, funk 39 Camarioca 109 Cagathoe 131 Miguel de la Borda 70 Columel 58 Morro Hermocos 65 Caimanes, Great and Small 88 Pan de Matanfas 109 Drake's 76 the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Feforo 84 Nueftra Senora de la Popa Fuerto 72 and 83 Pan de Cavannos 105 Lobos 33 el Potrero ibid. Mageres 52 de Perico 84 on the River Magdalena 106 Santo Espirito 92 of the Mountain del Assuerse 77 Tiende Ropa 74 Salamanca 81 Navaza 94 Tarquino 96 Negrillos 59 Taruco 109 Taruco 96 Taruco 96 Taruco 97 Indians civilized 73 Indians civilized 75 Indians civilized 75 Indians civilized 75 Indians civilized 75	Punta de Crux 74	- Isla Blanquilla, near Isle
Camarioca		Lobos — 33
Miguel de la Borda 70 Columel 58 Morro Hermocos 65 Caimanes, Great and Small 88 Pan de Matanías 109 Drake's 76 the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Fesoro 84 Nuestra Senora de la Popa Fuerto 72 and 83 los tres Hermannos 58 Pan de Cavannos 105 Lobos 33 el Potrero ibid. Mageres 52 de Perico 84 on the River Magdalena 65 Santo Espirito 92 of the Mountain del A- Suerse 77 quila 73 Tiende Ropa 74 Naranjos 81 Salamanca 81 Navaza 94 Tarquino 96 Negrillos 59 Taruco 109 Pasaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto 72 Quanaxa, Lat. 16° 40′ Iardines 97 Indians civilized 73	of Mary108	- Cavezas, funk - 30
Miguel de la Borda 70 Columel 58 Morro Hermocos 65 Caimanes, Great and Small 88 Pan de Matanías 109 Drake's 76 the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Fesoro 84 Nuestra Senora de la Popa Fuerto 72 and 83 los tres Hermannos 58 Pan de Cavannos 105 Lobos 33 el Potrero ibid. Mageres 52 de Perico 84 on the River Magdalena 65 Santo Espirito 92 of the Mountain del A- Suerse 77 quila 73 Tiende Ropa 74 Naranjos 81 Salamanca 81 Navaza 94 Tarquino 96 Negrillos 59 Taruco 109 Pasaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto 72 Quanaxa, Lat. 16° 40′ Iardines 97 Indians civilized 73	— Camarioca — 100	Cagathoe
Morro Hermocos 65 Caimanes, Great and Mariel 107 Small 88 — Pan de Matanías 109 Drake's 76 — the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Fesoro 84 — Nuestra Senora de la Popa Fuerto 72 and 83 — los tres Hermannos 58 — Pan de Cavannos 105 Lobos 33 — el Potrero ibid. Mageres 52 — de Perico 84 on the River Magdalena 65 — Santo Espirito 92 of the Mountain del A- — Suerse 77 quila 73 — Tiende Ropa 74 Naranjos 81 — Salamanca 81 Navaza 94 — Tarquino 96 Negrillos 59 — Taruco 109 Pasaje 124 — Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 — in the Bay El Playon 73 — of Punto 72 — Quanaxa, Lat. 16° 40′ Iardines 97 Indians civilized 73	- Mignel de la Borda - 30	Columel
Mariel	- Morro Hermocos - 6	- Caimanes Great and
Pan de Matanías 109 Drake's 76 the Old Mines, or Minas Excudo de Varaguas 78 Viegas 81 del Fesoro 84 Nuestra Senora de la Popa Fuerto 72 and 83 68 los tres Hermannos 58 Pan de Cavannos 105 Lobos 33 el Potrero ibid. Mugeres 52 de Perico 84 on the River Magdalena the Island Pinos 90 Santo Espirito 92 of the Mountain del A- Suerre 77 quila 73 Tiende Ropa 74 Naranjos 81 Salamanca 81 Navaza 94 Tarquino 96 Negrillos 59 Taruco 109 Pasaje 124 Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto 72 Jardines 97 Indians civilized 73	Mariel	
Viegas 81 del Fesoro 84 Nuestra Senora de la Popa 68 los tres Hermannos—58 Pan de Cavannos 105 Locudo 79 Organos 105 Lobos—33 el Potrero—ibid. Mugeres—52 de Perico—84 on the River Magdalena the Island Pinos—90 Santo Espirito—92 of the Mountain del A- Suerre—77 quila—73 Tiende Ropa—74 Naranjos—81 Salamanca—81 Navaza—94 Tarquino—96 Negrillos—59 Taruco—109—Pasaje—124 Veraguas, or del Almirante—Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto—72 Jardines—97 Indians civilized—73	Pan de Matanfas	Deales's
Viegas — 81 — del Fesoro — 84 — Nuestra Senora de la Popa — Fuerto — 72 and 83 68 — los tres Hermannos — 58 — Pan de Cavannos — 107 — Locudo — 79 — Organos — 105 — Lobos — 33 — el Potrero — ibid. — Mugeres — 52 — de Perico — 84 — on the River Magdalena — 65 — Santo Espirito — 92 — of the Mountain del A- — Suerse — 77 — quila — 73 — Tiende Ropa — 74 — Naranjos — 81 — Salamanca — 81 — Navaza — 94 — Tarquino — 96 — Negrillos — 59 — Taruco — 109 — Pasaje — 124 — Veraguas, or del Almirante — Pinos, Lat. 19° 40′ 90 79 — in the Bay El Playon 73 — of Punto — 72 — Jardines — 97 Indians civilized — 73	Pan de Matanias — 109	Drake 3 70
- Nuestra Senora de la Popa 68 - los tres Hermannos—58 - Pan de Cavannos - ro7 - Locudo - 79 Organos - ro5 - Lobos - 33 el Potrero - ibid Mugeres - 52 de Perico - 84 - on the River Magdalena the Island Pinos - 90 - of the Mountain del A- Suerre - 77 - quila - 73 Tiende Ropa - 74 - Naranjos - 81 Salamanca - 81 - Navaza - 94 - Tarquino - 96 - Negrillos - 59 - Taruco - ro9 - Paíaje - roy Veraguas, or del Almirante - Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto - 72 Jardines - 97 Indians civilized - 73	The Osa Wienes, or Minas	
Pan de Cavannos	Viegas 81	
Pan de Cavannos		Fuerto 72 and 83
de Perieo		los tres Hermannos—58
de Perieo	Pan de Cavannos — ro7	Locudo — 79
de Perieo	Organos 105	Lobos 33
de Perieo	el Potrero—ibid.	Mugeres 52
Santo Espirito 92	de Perico - 84	on the River Magdalena
Santo Espirito 92	- the Island Pinos - 90	- on a strong of the 64
Salamanca	- Santo Espirito 02	- of the Mountain del A-
Salamanca	Suerre 77	quila
Salamanca	Tiende Ropa	Naranios 81
Pafaje	- Salamanca - 87	Navaza01
Pafaje	Tarquino	- Negrille - 50
Veraguas, or del Almirante Pinos, Lat. 19° 40′ 90 in the Bay El Playon 73 of Punto Quanaxa, Lat. 16° 40′ Indians civilized 73		Pa(sie
Fardines - 97 Indians civilized - 73		
Fardines — 97 Indians civilized — 73		Pinos, Lat. 19" 40 90
Jardines ————————————————————————————————————		in the Bay El Playon 73
Indians civilized————————————————————————————————————	20 NA 18 CONTROL ON THE STATE OF THE STATE O	
Indians civilized - 73		Quanaxa, Lat. 16° 40'
Indians civilized————————————————————————————————————		57
Island		The first of the second of the
	Water to the state of the state	Island

IN DE EX

Mand of Quita Suenos, Lat. 18°	Mountains los Atrifcos, or los
20 pag. 58	dos Hermanos — pag.36
Racatan—58	el alto de Samba — 65
Racatan—pag. 58 —near Roca Partida—42	el alto de Verana 61
Sacreficios 33	Bernal el Chico - 37
- the Lake Terminos - 49	las Bochas del Tore
Theforo	Principal de la companya de la compa
Triangulos 15	of Bugio del Gatto 66
Tostowille	Chiana -
Tortoquilla 72	Chiapa 48
— Tortugas ————————————————————————————————————	de Cloque — 80
Verde 20 and 38	Guantanamo — 95
Vermeja, or Red Island	St. Juan33
L 00 2 4	- Havannah - 108
Constant about	the Old Mines 81
A man attended to be and the same	Pan de Misapa — 29
Legunilla 36	Nanta 35
Land off Cape Catoche - 53	del Papalota 36
	del Potrero, or del
Lake or Laguna de la Afcencion	
the contract the shoulder have 30	Rofario90
of St. Andres43	of Tama Olimpa—32
Mifapa	of Tama Olimpa—32 Villa Rica, Lat. 19
— Nicaragua — 70	40' 28 and 37
St. Bernardo 31	Volcano de Orizaba
— Chicalango——49	N. 1
— Tamiagua ———— 34	N N
Taminas 34	Namillos
— Terminos — 31 and 49	Negrillos 24 Nombre de Dios 75
- between Tampico and Tuspa	Nombre de Dios 75
33	Norths, or North Winds 14
Leeward Coasts of Cartagena to	O. mark and the second
Porto Bello, their Signs — 69	O. million
Lime-kilus off Vera Cruz 18 and	Old Vera Cruz 16
38	The second of the second position and the second of the se
[2007][2017]	P. whooli
M.	Parker, Capt. his Account of
'프레프'의 '프로마스 '트로' 이 전에 '라면 (프로마스 레이크 (프로마스 트리스 - 트로드 트로프트 - HOLE) - HOLE - HOLE - HOLE - HOLE - HOLE - HOLE -	
Malendus, Governour of Porta-	taking Portabell 130
bel, avounded ——— 134	Shot in at the Elbow 134
Mangrove Trees-49, 52, 88, 89	Palm Trees 33
Masts for Ships 62 Mineral Waters 47	Palm Trees 33 Panama 80
Mineral Waters - 47	Pan de Misapa 26
Mole of La Vera Cruz-21	Pan de Cavannas
Mountains of St. Martin - 29	Panzacola — 61
de los Allumbres—35	
del Aquila, or the	Pargos, Fish 43
Eagle72	Pine Trees for Masts - 62
of Arcos de Cantali	Pirates refort, where +73,79,99
109	Piraquas, or Guarda Costas - 49

L NI DI E X.

Pit, called de la Sorda pag. 101	Ridgesoff the Island of Pinos, call-
Playa Grande, or Great Shoar	ed the Jardines — pag. 90
Point, or Punta de anton Lisardo	Rock of Cavezas 39
remains in the same and Linards	el Morro del St. Martin 43
St. Blas, Lat. 9° 15'-70	- el Negrillo, under Water
Canas Liet. 9 13 - 76	to the N. R. of Tourse
— Canoa — 66 — Caribana 70	- to the N. E. of Tortugas
Caribalia 70	del Palo 39
—— Cruz —— 74 —— Delgada, Lat. 20° — 15	of Samulas Person
and 36	of Sayulte Peque —45
	— of Stone — 39 — de Sapolitan — 45
Gordo — 16 and 37 — del Guanal — 100	- de Sapontan - 45
de Canelian	of Potrero de St. Juan—ib.
de San Juan 45 of Maizi 94	Page de Francisco
del Manglar	— Roca de Farrellon — 45
del Manglar too	
- del Negrillo of Jamaica 91	- Roca Partida - 29
de Piedras - 50 and 54	of Tortuga30
- de Sayultepeque - 45	Row of Hillocks like Shepherds
de Sapolitan 44	Cottages 106
Port of Baracoa	River of Alvarado40
Campechy 54	Apalachy—63
- de Caballos - 58	St. Anna, or Tonela
	St. Anna, or Tonela 48 Baxo 30 Cavannas 41 and 107 Cayuca 48
St. Jago de Cuba 94	
Havannah — 61	Cavannas 41 and 107
Porto Bello70	Cayuca ———48
of Matan 112	Chitepeque —— 1b.
—— de Naos ————————————————————————————————————	de Chagres80
— de Truxillos — 58	de Cloque ——ib.
of La Vera Cruz, Lat. 19°	Dariel, Lat. 8° 30' 70
10' Honda 17	Escribanos — 74
Honda 106	Francisco ib.
Hicacos	Guazaqualcos 46
Mariel	Ligartos 56
The second contract of the second second second	Magdalina 65
Q	de en Medio 37
Queen's Gardens 91	Medelin ib.
the sentitude of the sent the	Morpata30
Try Remove Sabinet	St. Puala, Lat. 19°30'
Ridges of Rocks call'd Paxaros 20	16
off Point Canoa and el Bu-	del Potrero 40
gio del Gatto, called el Ne-	———Palizada ———— 62
grillo 66 and 67	St. Peter & St. Paul 48
off Cape Corrientes -90	Puercos — 90
of our contents—90	1 11000

IN NO DO EN X

River of good Water near Roca	Shoal off the Fort Cojimar, pag.
Partida————————————————————————————————————	of las Ormigas, or Ants 96
Sinu73	of las Ormigas, or Ants 96
Sifal — 53	Reventazon — 39
Santiago, Mineral Wa- ter — 47 — Tampico, inhabited by Fishermen 32 — Tabarcas — 48 — Tamiagua — 33	Reventazon 39 Roncador 93 Sal Medina off Cartagena 68 Bello 76 Don Sancho Pardo 101
ter 47	- Sal Medina off Carta.
Tampico, inhabited by	gena 68
Filhermen 32	eff Porto
Tabarcas ———48	Bello
Tamiagua — 24	Don Sancho Pardo 101
	Serranilla—93
Tavalco 49	Serrannia 93
	the English Shoal —85 the New Shoals —55
Trinidad 92	the New Shoals 55
beatiles dimes who	Sizal 50
8	the Viper ————85
Sampuala - 16 Sands Banks - 37, 38, 40 and 45	Tampico 34
Sands Banks - 37, 38, 40 and 45	on the North Side of Tor-
San Juan de Ulva16	tugas, Lat. 25060
San Juan de Ulva — 16 San Augustin de Florida 63	tugas, Lat. 25° ———————————————————————————————————
Scrivana of Portabell taken Pri-	Soundings off Campechy59Tortugas, Lat. 26
Coner125	Tortugas Lat 26º
Sea boisterous on the Coasts, where	and the state of t
	the Viper 88
Signs of the Leeward Coasts of	Carrel Con
oigns of the Lee-wara Coasts of	South-Sea 80 Springs of Water 43, 47 and 101
riavannan ————————————————————————————————	oprings of water 43, 47 and 101
- of the Windward Coast of	Storms on the Coasts of Chagres
Havannah ———— 109	81
Havannah 109 Ship struck 41	minual de T.
	Tides15
on Bugio del Gatto 66 on the Ridges off Point	Tides T. 15 Tierra Blanca 35 Bomba 68 Tocoluta 35 Tolu 18 La Tortaquilla 72 Torre de la Merced 17
Shoals of Alacran51	
Shoals of Alacran	Tocolura ————35
Anegada	- Tolu
Anegada — 20° — Arcas — 18	La Tortaquilla————
to the Fall of Baracon	Torre de la Merced
- to the East of Baracoa	Torre de la Macreed
1 0 0 0 124	Town of St. Anna48
- in the Bay el Playon	Spaniards on the River Chagres — 80 — Tocoluta — 35
73	Chagres ————80
of Campechy 19	——————————————————————————————————————
el Corsario 50 and 53	-on the River Alvarado -40
——————————————————————————————————————	near Acayuca48
St. Ifabel ioi	Triana burnt 132
the Island of Arenas 65	Tavasco 48
Manoel Antonio -23	Panzacola — 6:
and 51	civilized Indians 32
3.	Town

INDEX.

Town, lately peopled by the Spa-	Maracaibo, St. Martha, and
niards, with a Garrison p. 62	Some Part of Hispaniola and
Trade between Havannah and	Porto Rico 123
Apalachy — 03	- on the Easterly Parts of
- to Trinidad in Cuba from	Cuba, Hispaniola, Porto Rico,
Cartagena	and the Virgins125
Trade Winds14	- on the Coasts of Caro-
Cartagena — 91 Trade Winds — 14 Triangulas — 15	lina, Virginia, and the Mouth
Trinidad in Cuba - 91	of the Channel to Bermudas 1 26
AND A COMMISSION OF THE SAME OF THE PARTY OF	- from Porto Rico to la
Value of the same	
Variation of the Court of Lat	Trinidad and Margarita, with
Variation of the Compass, what	the Coasts of la Guayana and
115	Paria 128
- changes and alters 1b.	- on the Carribbee Islands,
	with the Coasts of la Guayana
the Coasts of New Spain, New	and la Cayana, as far as the
Andalufia, and New Biscay	Equinoctial - 129
117	Vera Cruz, Lat. 19° 10' -17
- in another Part of the	Old, ditto — 37
Bay of Mexico, the Coasts of	Volcano de Orizaba 27
Yucatan, New Biscay, and	- or Burning Mountain 29
Grand Florida — 118	- or Mountain of Orizaba
- an the Coall of Vuca-	200 PD 200 C 2019 FOR SERVICE
on the Coast of Yuca-	W. 29
tan, Guatimala, Honduras,	
Nicaragua, and Costa Rica	Ward, Capt. Shot through both Thighs 134
119	Thighs 134
in the Windward Paf-	Watch of the Town of Alvarado
Sage, the Island of Jamaica,	40
Part of Cuba, the Coast of	placed at Chacalaca 37
Cartagena, Terra Firma, Co-	Towers 53
sta Rica, and Nicaragua 120	Windward Coast of Vera Cruz 35 Havannah 100
on the Coasts of Flori-	Havannah 100
da, the Channels and Island of	Winds and Weather 14
Cuba 122	
on the Coasts of Car-	Z.
raccas, Venezula, Laguna de	Zargos, Fish so called - 43
The state of the s	The state of the s
Alagras zargalid	The second secon

